









Journal
of the
Royal Naval Medical Service.



Journal
of the
Royal Naval Medical Service

EDITED BY
THE STAFF OF THE
ROYAL NAVAL MEDICAL SCHOOL

VOL. XXXVI
1950



S T A P L E S P R E S S

PRINTED AND PUBLISHED BY
STAPLES PRESS, LTD.,
MANCHESTER, ENGLAND



Journal of the Royal Naval Medical Service.

BRICKS

CUM GRAND SALIS

BY

Surgeon-Commander J. W. L. CROSSFILL, R.N.

Name of patient	CROSS, John	
Age		
Race or color	Irishman	W F Q R
Religion	Anglican	
Next of Kin	Wife	CALIFORNIA
	via The Capital Hotel	
Date and time of admission	14th	Midnight of March
State of discharge	15th of March	10th March 1928
Diagnosis	Minors's Syndrome	
	C. S. C. M.	
	Multiple Injuries	(not on duty)
Temperature on admission	No	
Pulse on admission	Yes	
Whether heart condition present	Not yet	

History of Present Complaint

Ed. Mott. This officer, who was admitted without any accompanying medical documents, was proceeding through the market place on 14th date. He was apparently sober at the time. His previous illness had been minimal but, whilst in the market place, he was observed to be somewhat peculiar and hesitant in his manner, there refusing though reluctantly, the offered cravat. The reason for this conduct is not directly known, but he had a shock while previously admitted some worry about his wife's health.

- (1) Forget not in your speech, Ancestress
To speak California, for our sickle say
The leaves, touched in this holy place
Shake off their deadly care.

L. R. O. M. (ask) I want an E. N. T. man for these children. (Will contact the clinic)

a.d. P. M. New Heart Will Ophthalmologist specialist please interview. (Will find no ocular cause for these in children. Palsid and methimazole.)

a.d. P. M. New Heart Will surgical specialist please see this case urgently. (There is no indication for surgery here. This is a medical case. Suggest diagnosis of arriving blood as anastomosis. (10)

a.d. P. M. New Heart Will Pathologist please supply blood as anastomosis with Surgical Specialist a question? Urgently please. No stored blood is available at present. As the vessel is closed for repair and the glottides are such (as there is no local supply. Application has been made to the transfusion unit. Typical this treatment has, owing to prior treatment yet being conducted together with the need for conservation of D serum it is doubtful whether the treatment will improve the disease.

a.d. M. M. New Heart Will Medical Specialist please see this case urgently? (When all investigations have been completed. These should include a report from the Consulting Anatomist and the N.P. Specialist. With reference to the previous reports in this patient suffering from leukaemia?)

Phoebe New Heart. No. Will Consulting Anatomist please see this case urgently? (I assume the idea of March.

New Heart. Will the N.P. Specialist please see this case urgently? (Michael Barry Brown. The N.P. specialist does not visit the hospital until Monday. Should he be sent for urgently?) Yes. (Clear is an extremely rare of double temper. He shows double sphincter and parastomal tenderness. Emotional tone is flat. He exhibits a dislike for this case with concern.

He is superstitious person of late. He has a very adequate personality with a hysterical perpetuation of symptoms. This attack in the medical phase is consistent with a conversion hysteria, and his manner on that occasion shows a regression to the negativism of the infantile state. Doubtless that is due to his having been denied the privilege of maternal breast feeding which has led to an inferior personality. Proper milk lettings. Will medical officer in charge of this case please do a routine physical examination for me?)

a.d. L. R. O. M. New Heart Will Medical Specialist see this case please urgently? (There is a case of Michael's syndrome. (10) In the following narrative. Take the case of a young man under twenty, four days dead clinically with all the characteristic features: vomit and mucus. First it and a 14 English, nation as of the Seven Seas. History with black, eleven November July. Let them stand while they deal by collection and make a visit from the medical and put it in the spirit. It is a brown anastomosis from a sample to four samples for a case.

a.d. P. M. New Heart. Forwarded B.O. six times.

In view of Medical Specialist's report will be please advise treatment of this case? Not to Phoebe a longer today.

a.d. P. M. New Heart Medical Specialist to N.M.O. (M) interviewed with view to availing.

a.d. P. M. New Heart Has L.I.F. treatment been applied for in this case?

"The Glass"

1. The first time I saw the glass was in 1881, when I was in the
2. The second time I saw the glass was in 1882, when I was in the
3. The third time I saw the glass was in 1883, when I was in the
4. The fourth time I saw the glass was in 1884, when I was in the
5. The fifth time I saw the glass was in 1885, when I was in the
6. The sixth time I saw the glass was in 1886, when I was in the
7. The seventh time I saw the glass was in 1887, when I was in the
8. The eighth time I saw the glass was in 1888, when I was in the
9. The ninth time I saw the glass was in 1889, when I was in the
10. The tenth time I saw the glass was in 1890, when I was in the
11. The eleventh time I saw the glass was in 1891, when I was in the
12. The twelfth time I saw the glass was in 1892, when I was in the
13. The thirteenth time I saw the glass was in 1893, when I was in the
14. The fourteenth time I saw the glass was in 1894, when I was in the
15. The fifteenth time I saw the glass was in 1895, when I was in the
16. The sixteenth time I saw the glass was in 1896, when I was in the
17. The seventeenth time I saw the glass was in 1897, when I was in the
18. The eighteenth time I saw the glass was in 1898, when I was in the
19. The nineteenth time I saw the glass was in 1899, when I was in the
20. The twentieth time I saw the glass was in 1900, when I was in the
21. The twenty-first time I saw the glass was in 1901, when I was in the
22. The twenty-second time I saw the glass was in 1902, when I was in the
23. The twenty-third time I saw the glass was in 1903, when I was in the
24. The twenty-fourth time I saw the glass was in 1904, when I was in the
25. The twenty-fifth time I saw the glass was in 1905, when I was in the
26. The twenty-sixth time I saw the glass was in 1906, when I was in the
27. The twenty-seventh time I saw the glass was in 1907, when I was in the
28. The twenty-eighth time I saw the glass was in 1908, when I was in the
29. The twenty-ninth time I saw the glass was in 1909, when I was in the
30. The thirtieth time I saw the glass was in 1910, when I was in the
31. The thirty-first time I saw the glass was in 1911, when I was in the
32. The thirty-second time I saw the glass was in 1912, when I was in the
33. The thirty-third time I saw the glass was in 1913, when I was in the
34. The thirty-fourth time I saw the glass was in 1914, when I was in the
35. The thirty-fifth time I saw the glass was in 1915, when I was in the
36. The thirty-sixth time I saw the glass was in 1916, when I was in the
37. The thirty-seventh time I saw the glass was in 1917, when I was in the
38. The thirty-eighth time I saw the glass was in 1918, when I was in the
39. The thirty-ninth time I saw the glass was in 1919, when I was in the
40. The fortieth time I saw the glass was in 1920, when I was in the
41. The forty-first time I saw the glass was in 1921, when I was in the
42. The forty-second time I saw the glass was in 1922, when I was in the
43. The forty-third time I saw the glass was in 1923, when I was in the
44. The forty-fourth time I saw the glass was in 1924, when I was in the
45. The forty-fifth time I saw the glass was in 1925, when I was in the
46. The forty-sixth time I saw the glass was in 1926, when I was in the
47. The forty-seventh time I saw the glass was in 1927, when I was in the
48. The forty-eighth time I saw the glass was in 1928, when I was in the
49. The forty-ninth time I saw the glass was in 1929, when I was in the
50. The fiftieth time I saw the glass was in 1930, when I was in the
51. The fifty-first time I saw the glass was in 1931, when I was in the
52. The fifty-second time I saw the glass was in 1932, when I was in the
53. The fifty-third time I saw the glass was in 1933, when I was in the
54. The fifty-fourth time I saw the glass was in 1934, when I was in the
55. The fifty-fifth time I saw the glass was in 1935, when I was in the
56. The fifty-sixth time I saw the glass was in 1936, when I was in the
57. The fifty-seventh time I saw the glass was in 1937, when I was in the
58. The fifty-eighth time I saw the glass was in 1938, when I was in the
59. The fifty-ninth time I saw the glass was in 1939, when I was in the
60. The sixtieth time I saw the glass was in 1940, when I was in the
61. The sixty-first time I saw the glass was in 1941, when I was in the
62. The sixty-second time I saw the glass was in 1942, when I was in the
63. The sixty-third time I saw the glass was in 1943, when I was in the
64. The sixty-fourth time I saw the glass was in 1944, when I was in the
65. The sixty-fifth time I saw the glass was in 1945, when I was in the
66. The sixty-sixth time I saw the glass was in 1946, when I was in the
67. The sixty-seventh time I saw the glass was in 1947, when I was in the
68. The sixty-eighth time I saw the glass was in 1948, when I was in the
69. The sixty-ninth time I saw the glass was in 1949, when I was in the
70. The seventieth time I saw the glass was in 1950, when I was in the
71. The seventy-first time I saw the glass was in 1951, when I was in the
72. The seventy-second time I saw the glass was in 1952, when I was in the
73. The seventy-third time I saw the glass was in 1953, when I was in the
74. The seventy-fourth time I saw the glass was in 1954, when I was in the
75. The seventy-fifth time I saw the glass was in 1955, when I was in the
76. The seventy-sixth time I saw the glass was in 1956, when I was in the
77. The seventy-seventh time I saw the glass was in 1957, when I was in the
78. The seventy-eighth time I saw the glass was in 1958, when I was in the
79. The seventy-ninth time I saw the glass was in 1959, when I was in the
80. The eightieth time I saw the glass was in 1960, when I was in the
81. The eighty-first time I saw the glass was in 1961, when I was in the
82. The eighty-second time I saw the glass was in 1962, when I was in the
83. The eighty-third time I saw the glass was in 1963, when I was in the
84. The eighty-fourth time I saw the glass was in 1964, when I was in the
85. The eighty-fifth time I saw the glass was in 1965, when I was in the
86. The eighty-sixth time I saw the glass was in 1966, when I was in the
87. The eighty-seventh time I saw the glass was in 1967, when I was in the
88. The eighty-eighth time I saw the glass was in 1968, when I was in the
89. The eighty-ninth time I saw the glass was in 1969, when I was in the
90. The ninetieth time I saw the glass was in 1970, when I was in the
91. The ninety-first time I saw the glass was in 1971, when I was in the
92. The ninety-second time I saw the glass was in 1972, when I was in the
93. The ninety-third time I saw the glass was in 1973, when I was in the
94. The ninety-fourth time I saw the glass was in 1974, when I was in the
95. The ninety-fifth time I saw the glass was in 1975, when I was in the
96. The ninety-sixth time I saw the glass was in 1976, when I was in the
97. The ninety-seventh time I saw the glass was in 1977, when I was in the
98. The ninety-eighth time I saw the glass was in 1978, when I was in the
99. The ninety-ninth time I saw the glass was in 1979, when I was in the
100. The hundredth time I saw the glass was in 1980, when I was in the

COWES WEEK

BY
"BARKER"

BEFORE the summer of 1888 I was invited to command a "Queen Mary" with a crew of about 200 men, for the last three days of Cowes Week and after the regatta to sail her back to Portsmouth.

I accepted with alacrity, feeling that unless I did so completely more experienced than I would be found to do it for, although I have missed about a dozen, for a good many years I have had very little experience of

the real thing, giving the passengers and the passengers' gear what I had agreed on as much.

I looked through the air, but found no one in the front part of the passenger compartment, and planned to enter the next stage—stepping perhaps at Blackheath for a moment and then returning at the appointed time from the train. As things turned out, however, difficulties arose in time for me.

It occurred to me, but witheringly, that I should be sure to leave the elements of haste I suggested, and I approached a Marine who gave me an hour's notice in writing, at the conclusion of which I did at least get out of a Tidal Wave car and could now follow the tub, under. Frightened with this latest ledge I felt compelled to undertake the navigation of a battleship and had no question of all about a forced trip such as I contemplated.

I had agreed to go on my last at Portsmouth on 15 August, but a last-minute telegram told me to go to Portsmouth instead and direct the officer I was to relieve as H. M. A. Brown when he would turn over to me and give me all the "go." I went, at a time accordingly to Portsmouth and reached my destination about 1900. I met the Lieutenant Commander whom I was relieving in the warehouse, where I spent a very happy hour. I had known him as a House Officer at Portsmouth and it was under his command that I had sailed to seek the previous summer. A very courteous Captain he had been, I remember, but he had seen the Portsmouth man and done well as that to La Rochelle. He gave me all the advice possible and told me to leave at 2100, at least that is what I thought he said but possibly under the influence of duty days. I have never gotten back a little muddled.

Arriving I left him with some information at 2100 and passed my bunk which was alongside a desk, and bag. One of the sailors was taking the evening air in the cockpit and I was much surprised to hear him shouting to his friends in the cabin below—Captain's coming aboard. The change from my own usual title of "P.M.O." muddled me not a little.

At 2200 we stopped. There was a very strong flood tide to contend with and a light north westerly wind. Progress was slow and it was not until 2315 that we cleared Fort Blackheath. My last experience of being on the charge of a vessel was therefore to be a night sail across Spithead and I did not think of it in the least as the whole place appeared to be a mass of blinking lights, and at the best of times I was not familiar with these waters. My own two-year seagoing quite at home there and was, up to the last, provided as I picked up what courage I could and tried to appear unconcerned. We reached Gosport without incident at 2330. The wind had dropped almost completely, by then and with a strong north going tide we were obliged to make, by a short cut but were within the middle of the harbor, and I felt that up to then I had not made a very favorable impression upon my crew. I later tried to remove the situation of I could not secure an Akko lamp I made a signal to the guardship at the highest speed of a bulb I was capable of using for a light to run as fast as the light. The guardship was such as that ship must have been a reputation as he was able to understand my words and what it meant to make a reply, a bulb even I could read. I hope he was much that

Yves and I went ashore and I went up hills and to the highest point possible in the immediate neighborhood, I hoped to find some nesting grounds, but it was late. I have the same philosophy.

A few birds came in, but none came and landed on any more suitable anchorage off the Island Hotel Club after we had had a strenuous climb with the motor on the lake in a running state, though that we had the greatest difficulty in weighing it off and eventually could not get it with the motor down, and

After this we settled down to get some sleep for about a month of the night. Next morning I found that one of the two had a very hard. It looked as though a piece of paper (quite soft) was in the hand, and without me of the back of my head I could do nothing for it. I therefore picked him off shore and told him to cross it and to get to the Island Hotel Hospital at 10 miles so he could stomach, he said to me the several days. We then weighed and left harbor. We passed about 10 miles and got into, as a reasonably good one, but actually behind the gun which was more common at 1000 being held by two other airplanes. We quickly released one of them but could make no impression on the leader who was considerably, with us around at 1000. It was highly gratifying to have achieved a gun on the first day, a mark at 1000 but no reflection I had to admit that the leader must go to the men who knew the best well and had had three days experience over the same course.

Next day we decided to try our luck in the landscape for justice between 10 and 12 miles W. We were several over the line at the start with the previous day a number just across of us to starboard and two other boats to port. They all accelerated as rapidly and at the first mark. West Lake, however we were being fourth. Another boat passed us at the third mark and when we reached West Lake in the second lap we were certainly by still another boat. This was our own luck as, on the strength of doing something different from the leaders I kept out instead of going close inshore and lost a lot of ground by so doing. The weather had deteriorated, it was raining hard and visibility was poor. We could make no impression on the leaders and had a rather depressing end for the remainder of the race and finished a few miles out.

We returned to our anchorage and, being that the race ended showing up after such a day, we decided to run ashore and visit to the Hamilton Hotel for dinner. Having lunch we decided to have a look at *Blackbird* as one of the crew took the crew while it was in the state of an *Anglo-Saxon*. Unfortunately, contrary to my packed two boats, the boat broke, and by the time we reached *Blackbird* the water was close up to the stern. I perched on a flow the upriver in an endeavor to keep an important part of my only direct part of it from breaking, and we got back to our anchorage just before the change, filled right up.

Saturday, 15th August was the last day of the regatta. There was a fresh north easterly breeze blowing and we caught out off harbor at 1000 with one yell on the occasion. No crew were necessary to do this time but, as it being the last of the regatta and being by nature a final race, I was paid

an enormous air compressor, which I could hear chug as I climbed. I imagined it was like that I should see (naturally) from (over the water to take in) another. We, travel mates, gradually started talking through the I once I saw the Bay to the Golden Light Vessel. It took us exactly five minutes to reach the starting line from that. It was still blowing hard, but our attention was now to another.

In theory, which was under full gasped as I was obliged to abandon my natural caution and the roll was very soon taken out.

The race, which was another headlong, was due to start at 11:10, and on this occasion we at last got a perfect start, crossing the line on simultaneously with the gun and dead level with another. We Meier. The course was as follows—Line to West Laga, then to West Broude's Bay to West Middle Bay to Line. Four round. Distance about twenty-one miles. The wind was freshening as we started on a crash. The fun began at 11:50 when the beach of the Green light. The crew were very, but on this heading the heading job and heading the turn out in a most remarkable manner. There would be a run after we rounded West Laga and just as we were making up to the buoy we "lost" Lamentation. asked if we should see the bpspeaker. There was I thought, a great loss in the eye as he asked that the sail was all ready for heading in shape. With as much confidence as I could command I replied that of course we would "round," wondering what on earth was going to happen. Left to our own devices, I should undoubtedly have taken in a few reefs and gone home. No matter what we round the buoy, then the bpspeaker was located. I am sure we looked a few right as we seemed to be travelling at the speed of the Curved Broude Express. The sail was billowing out beautifully and the boat was heading up into the most remarkable "S" shape, so that one member of the crew had to be constantly sitting on it. However, no danger overtook us and I was thankful when we had rounded the next buoy and could lower the sail.

We finished the last lap at 1:50 (yep, that). Captain was in the boat with Joe French second. Although the seventh boat was overtaking us and passed us before we reached West Laga again, but we regarded it as our most convenient to have led her for one whole lap.

That heavily bpspeaker went up again as soon as we rounded the mark, and at 1:50 the bpspeaker Broude broke wind. Father was sitting on it, meaning no little movement to the Ship's Company who had no respect for his grey hairs so he put a few dignified figures. Anyway, as there was no other outside agent in the boat to take the place of the broken one, the sail had to come in and after that we got on at a far more sedate pace. Although we were well ahead, and we suspected that she had a head of two minutes on us at the West Broude which she had dropped to ten at West Middle. We continued to draw on it, and we finished fourth in a nervous time. We might as well have saved our time on the seventh boat had it not been for the spectators to the Green and bpspeaker Broude, but we had had a stimulating and which we had all enjoyed.

We returned to our anchorage and went ashore to the Island Yacht Club for drinks. I met a "Kuma Officer" with whom I had served in a cruiser

up the early days of the war, but our pollution was cut short, as the storm came was located for a southerly gale at 10:00 and we returned to our ship. We stopped at 12:00, the weather was cleared in the afternoon and by 12:30 the wind was increasing in force noticeably. We raised some cable and made everything as snug as we could. I did not like the look of the weather at all and, as it turned out, I was to have one of the most unpleasant nights I have ever spent in my life.

The wind steadily increased in force with very fierce gusts which caused the boat to rock in a most alarming manner, and to wash violently on the side. It started to rain, the squalls reducing visibility to practically nil and by midnight a full gale was blowing. I was becoming very concerned about the cable line if that were to part we should in all probability be finished. Nothing could have saved the boat and I did not fancy the chances of my crew if it came to swinging for it. I suppose a more conspicuous marker might have located a well-trained and well-gutted crew but to me that seemed a very, distinctly undesirable as we should have had the entire South Coast of England under our lee and our predicament would have been worse than ever. We had no second watch and there was not even a marker on the boat which we might have put down the cable to release the anchoring. I spent a most uncomfortable night looking at the cable at intervals wondering what to do next trying to make up my mind what to do if and when the cable parted and when I laid down to think of anything else, making with it in my head that we were very distinctly washed up as had at home. At 04:00 there was a terrific crash and the entire crew were on the deck as the twinkling of an eye. I thought that the cable had parted as it was at least rendering but all was well, though we could hardly believe it. We raised a little more cable and laid it. Paul's cigarettes on another occasion proved for the crew.

By 07:00 the gale had subsided somewhat, but it was very noisy low water and we were exposed. I took a sounding and found five feet of water - on the shore this was not very promising. The boat had a pronounced list to port but we managed to right her by all getting on the cable and hauling her down, although even then her list was still troubling, but we dared not haul her more as it was still blowing quite hard and the cable was too hot. Low water was at 07:11 so we hoped that with the turn of the tide we should be able to get into a safer position. A water gauge just astern of us was showing heavily at low water and I feared she might let us in by working her engine her power managed to start a collapse. He told us that his boat was touching at intervals and added that it was most unfortunate that the lowest tide of the year should happen to coincide with such an unreasonable gale.

To my profound joy, the wave of the harbour was far from pleasing. Numerous difficulties which I had not known about were showing above the water and one boat had been washed up on the breakwater during the night and must have been extensively damaged. In view of the force of the gale I was surprised that there were no more.

By 11:00 we were still aground and I felt a little better. We had breakfast at 08:00 and we have lost one member of the crew left as so there were only

I am including myself in this but look to Port Royal. Long 11 (4) Barbara Ann Smith passed us toward the Portsmouth. Her Captain advised us that there were no men ashore further up the harbor side as she had been lying, and I decided to raise up there before daylight. I had no intention of spending another night where I was and did not wish to let Captain Smith know that I was in a more favorable weather report.

At 1200 we weighed and went up harbor under minimal sail, with no sail on it. We hoisted a twelve inch coal barge of a signal in the fore, the signal light, and went up harbor under no sail open main and the led to a most enjoyable cruise for the owner and his crew were most hospitable and we were very grateful to them for what they did for us.

There were four of them aboard—the owner, a friend of his, perhaps two but. One of the boys was a brother. There behind which is a very good boat. They had a twelve inch coal barge of a signal in the fore, the signal light, and went up harbor under no sail open main and the led to a most enjoyable cruise for the owner and his crew were most hospitable and we were very grateful to them for what they did for us.

At 1200 we were all carried to shore in the other boat and we enjoyed an excellent meal cooked by the owner. After the meal we were shown around and at 1230 we returned to our own boat and turned in as we were all getting tired after the previous night's experience.

We woke on Monday, the day after to find that the gale had subsided and it was a warm sunny day with light variable winds. We went at 1100 going out under working sail and found the morning under way. The tide was flooding as we had a hard battle against it all the way to the harbor and did not land, to shore it by keeping well ashore. In the end we were very comfortably successful and took a most agreeable time. It did not go as well as we had hoped for but we got off without trouble. Our twelve men's 'Chimney' ship passed us on the port side at 1140. At 1140 we started the harbor and Port Royal. May 11 1890. At 1210 we altered course to S. 30° W. and ten minutes later I got a message from Captain Smith, and Houghton's Boat. He started speed 5 knots.

At 1230 we went about course S. 30° W. The wind was freshening considerably and we were having a most enjoyable sail. At 1240 the boat started ported. We were a new one and took about 100 miles in the afternoon. This resolution completed we went about. I could have started S. 30° W. alone but that I was anxious to give the Portland State a sail berth as usual to S. W. In going her way to 70 at 1240 (which I was and I close of the race. The boat continued to finish and I began to hear we were at the harbor forty eight. At 1250 with Portland Brown, having done North we took a third sail in the morning. One or two of the crew were beginning to feel the effects of the motion and they disappeared below. The remainder went down for some sleep having no sleep in the cockpit and as they were pretty well exhausted and in any case I should have to return there all night. I had not the heart to get out of them any. Besides I was rather enjoying the sail. It got very cold as the night went on and the wind backed steadily. Among the crew and crew to the northward. The day was so great as there were no steps to show us and I was

colossal crowd, and a tremendous sea. I could only vaguely realize the great excitement I thought of the moment of the light of midnight, when I found that something was very seriously wrong. I was not alone, as I felt sure, and never had a thought of leaving the ship. At 11:00 I reached the line of the Starlight line on my dark red line, and I was not alone, as I felt sure, and never had a thought of leaving the ship. At 11:00 I reached the line of the Starlight line on my dark red line, and I was not alone, as I felt sure, and never had a thought of leaving the ship.

At 11:00 I reached the line of the Starlight line on my dark red line, and I was not alone, as I felt sure, and never had a thought of leaving the ship. At 11:00 I reached the line of the Starlight line on my dark red line, and I was not alone, as I felt sure, and never had a thought of leaving the ship. At 11:00 I reached the line of the Starlight line on my dark red line, and I was not alone, as I felt sure, and never had a thought of leaving the ship.

At 11:00 I reached the line of the Starlight line on my dark red line, and I was not alone, as I felt sure, and never had a thought of leaving the ship. At 11:00 I reached the line of the Starlight line on my dark red line, and I was not alone, as I felt sure, and never had a thought of leaving the ship. At 11:00 I reached the line of the Starlight line on my dark red line, and I was not alone, as I felt sure, and never had a thought of leaving the ship.

At 11:00 I reached the line of the Starlight line on my dark red line, and I was not alone, as I felt sure, and never had a thought of leaving the ship. At 11:00 I reached the line of the Starlight line on my dark red line, and I was not alone, as I felt sure, and never had a thought of leaving the ship.

At 11:00 I reached the line of the Starlight line on my dark red line, and I was not alone, as I felt sure, and never had a thought of leaving the ship. At 11:00 I reached the line of the Starlight line on my dark red line, and I was not alone, as I felt sure, and never had a thought of leaving the ship.

BCG VACCINATION

BY

Sir James Cunningham F. C. MACDONALD, M.D., O.B.E., M.R.C.P., F.R.S.

BCG vaccination has recently re-emerged into prominence in the medical literature of this country and it now seems to be used in selected groups of the population. During a recent visit to Scandinavia, opportunity was given to see the anti-tuberculosis campaign in action in its various aspects: clinics, mass vaccination and propaganda, mass radiography, tuberculosis testing and BCG vaccination. Most of the facts concerning BCG are widely known and these notes are concerned mainly with some practical aspects of its use.

BCG is a vaccine made from a living strain of bovine tubercle bacilli of a very low and almost fixed virulence. The vaccine was originally produced by Dr. Hansen, Copenhagen and named after the Pasteur Institute who cultured the bacillus for fifteen years on an artificial potato medium before it was finally used on man in 1915. All BCG now used comes from this strain but methods of cultivating and preparing the vaccine vary in different countries. In Denmark the vaccine is prepared at the Danish Serum Institute. The bacillus is grown on a synthetic fluid culture medium, Pasteur's Agarosepta, and transferred regularly to guinea-stabiles. Its dose is such that the potency of the strain is entirely constant and the greatest importance is attached to the maintenance of potency at the regional level and much experience in the work is required to attain this. It is necessary to use a vaccine that has been well tried out and the production and maintenance of an effective vaccine is essential. The aim is the production of a vaccine that is 100 per cent successful in converting non-tuberculin reactors to positive reactors and, in general, in Denmark 75-85 per cent is achieved. In addition to having of the required potency, there must be avoidance of complications and serious local reactions. There is too much the conversion rate from non-reactors to reactors will be too low and the maintenance of tuberculin sensitivity will last too short a time. In preparing the vaccine the bacilli are grown on the surface of the fluid medium and a 14 day old culture is used. A suspension of the culture is made in distilled water, a [mg. of BCG culture to 1 c.c. medium and it is distributed in glass ampoules after a control test for sterility has been carried out. The dosage used in giving the vaccine by intradermal method is 1/10 c.c. or approximately 1 million bacilli. The vaccine can be used for long weeks after preparation and it should be kept at a temperature of 2-4° C. It is supplied in glass ampoules which are thoroughly shaken before being used.

BCG vaccine is never used without a preliminary tuberculin test and only negative results are ever vaccinated. There have never been instances with tuberculosis or tuberculous infection has taken place a long time before and

they have no antibodies against the tubercle bacillus, it is generally recommended as incorrect to give any degree of effective protection when tuberculin testing is an integral and essential part of skin test management against tuberculosis. It is essential as a preliminary, to vaccination and is also widely used in conjunction with mass radiographs, and at the instance created during mass radiography tuberculin testing was carried out at the same time.

Various conditions are liable to cause errors in interpreting the results of tuberculin tests and may give a negative reaction when tuberculous infection has already occurred. As it is necessary to protect the population of the vaccine it is important that it should not be given to a false negative reaction who may develop tuberculosis distant from an infection acquired before the vaccine was given. The giving of the vaccine to a patient already infected with tubercle bacilli does no harm but it is not necessary, and risks the reputation of the vaccine. For this reason carelessness should not be carried out during periods of epidemic and particularly when there is an epidemic of measles. Some other diseases and poor health and debility may also temporarily convert tuberculin reaction to negative. In Denmark, it is believed Koch's reactions may also give false results due to the result of a tuberculin test.

A tuberculin test is necessary before BCG vaccination in order to eliminate cases of tuberculosis to avoid causing Koch phenomenon with the result, my danger of disease formation, and to divide the population into those who have already an acquired immunity against tubercle bacilli from previous infection and those who require the production of allergy and immunity by vaccination. The Koch phenomenon in humans is a small red painful nodule appearing at the site of inoculation and though not dangerous in itself may be considered troublesome. Tuberculin testing is an important part of BCG vaccination and it is necessary to protect the population of the vaccine that the production of the tuberculin and the method and technique must be thoroughly reliable.

Tuberculin was originally prepared by Koch in 1890 and his preparation is known as Old Tuberculin. The tuberculin used in Denmark, now is P.P.D. (purified protein derivative). It is prepared by growing the tubercle bacilli on Gause medium which contains no protein. The P.P.D. is standardized as Tuberculin Units (T.U.) and 1 T.U. is equivalent to 1/200 mg. Standard Old Tuberculin or 1/20 000 mg. International Standard. Dilutions of tuberculin will only keep a certain time and the same diluted preparation the shorter time it will last. The most tuberculin test carried out is the Mantoux test. The tuberculin is diluted for 1 T.U. and 50 T.U. and can be used up to 1 month old. In the skin test 1/10 of a c.c. or 1 T.U. is used and the reaction is given subcutaneously as superficially as possible. The result must not be read before the third day after injection, i.e. after moving into focus and not later than thirty six hours. For a positive result there must be a definite area of induration with a diameter of at least 5 mm. It is the area of induration that is important and redness and inflammatory reaction are not considered. A diameter of less than 5 mm. is not considered a positive reaction,

It shows a pronounced positive effect, then, compared with the other method not using ICI.

In children one finger prick test is commonly used. It is particularly sensitive in very young children and can be used up to the age of 12 but not later. The method recommends the use of an extract of guinea from Qilt. Take a disc and PPD make up into a 0.1 ml. square of adhesive tape. A small portion of water or about the size of a pin-head is placed on the surface of the adhesive square. A trimmed end of stick or a tape alone is inserted into this and there is still the adhesive on the end, left on for forty-eight hours. The stick is then prepared as left on PPD water, but here and the result read on the third day. It positive then should be at least 1 typical papule in the area of the application.

Another test sometimes used is the advanced Papan test which uses a very small amount of material. This is a very sensitive test but in all the adult testing was being done in Copenhagen the Mantoux test was used. The Mantoux test is done on the dorsal aspect of the middle of the forearm and the other tests in the corresponding part of the other forearm. In carrying out these tuberculin tests and also in giving of 0.1 ml. intradermally no change of the skin is carried out and no antiseptics are used on the skin. It is the practice in tuberculin testing before a new skin to skin, the method of testing and the dosage employed. To evaluate some of tuberculin a negative reaction to a Mantoux test of 18 TU is said to represent a More-Peto test up to the age of 15 is considered sufficient. It is recommended that if these tests are used grouped by an other chemical group a positive tuberculin test with the characteristics as described.

The BCG vaccine is given in Scandinavia almost entirely by the intradermal route and thus in this method used now in Denmark. Children eagerly give the vaccine by needle and this method is used now only for the children in some. The intradermal method using the Birlings needle or the combination of it with a mandrel through the skin is preferred in the children in Denmark though it is well used to some extent in Norway. The reason it has been able to overcome the difficulty of measuring the exact amount of vaccine inoculated by this method and the great importance as related to the amount of vaccine given of the idea of 100 per cent vaccination rate and the measurement of the various types of a positive tuberculin reaction can be observed. The amount of given tuberculin is 0.1 mg. in a 0.1 ml. dose and will be used in this way. The great advantage of the intradermal method is the amount of vaccine given can be measured and with a measure of the correct potency, a very high conversion rate can be achieved and a degree of accuracy which has for four to five years or at least 10 per cent of error.

The BCG is given by a special syringe and a very short, about 1 cm. glass or plastic needle is used to facilitate the giving of a true intradermal injection. A smaller type of syringe and needle are used in the same way with the Mantoux test. The injection is given very capably and the resulting Madsen like area in many cases may be considered showed a remarkable uniformity in size. The injection is given fairly slowly in order not to cause

a light waged in these countries with enthusiasm and thoroughness by all the recognized nations.

I am greatly indebted to Dr. H. Nielsen of the Central International Dispensary, Copenhagen, who gave so much of his time in showing me the BCG vaccination, and other anti-tuberculosis work in progress, and for making available so much of the information recorded here.

DISEASES OF LEADING IMPORTANCE TO THE NAVY¹

BY

Captain (M.C.) ROBERT L. WARE, U.S.N.

A question frequently asked since the close of hostilities is: "What was the navy's most important disease during the War?" While this simple question would seem to deserve a straightforward answer, it soon becomes apparent that the word "importance" has a wide range of interpretations, and that a dozen individuals might arrive at the result and determine a dozen different diseases as being the most important to the navy. For example, one disease may have been outstanding at training stations during a given year, while a different one was of leading importance to Marines, or to selected personnel generally, or to personnel afloat. The navy experiences may be grouped as everywhere with many different lines of change, and so many different diseases may thereby be thrown into prominence. Diseases of importance at specific times or to selected groups of personnel are correctly considered important in the parts they represent, but may be relegated to a lower position when evaluated in terms of the experience of the total naval force.

In this presentation the entire strength of the Navy and Marine Corps is considered for the four-year period 1941-45. (Errors due to memory action are eliminated throughout the study, but all diseases and non-combat injuries are included.)

Four different criteria are presented for evaluating the importance of the various diseases that contributed to the navy's wartime experience. The total number of sick days, the frequency of incidence, the number of persons afflicted from the service,² and the number of deaths resulting from a given disease are here basic factors by which the importance of the disease to the navy may be judged. In this study the leading diagnoses are shown in rank order for each of these categories.

¹Copyrighted from the United States Naval Medical Bulletin, March-April 1948. Statement prepared by the Medical Director, Bureau of Medicine and Surgery, Navy Department, U.S.A.

²The term "incidence from the service" means that an individual is liable to the navy in service days was terminated because of physical disability.

While civilian health statistics are usually confined to the incidence of various conditions and the death statistics to those who passed from the scene, it appeared to study also the number of days lost from duty and the number of men lost from the service through mauling. Such data statistics can only show the man power loss through illness, but also give an indication of the work load of the Medical Department and thus constitute a useful gauge of the importance to the navy of a given disease. Similarly, the number of persons excluded from the service because of a specific disease is a measure of the harm resulting from the importance of the disease to the navy; since mauling days represents a present and loss of man power. The loss of man power through mauling from the service is difficult to estimate in terms of man days. However, if it should be assumed that a man mauling would have been delayed for one additional year if he had not been mauling, then it could be seen that the navy lost many man days through mauling than through such diseases as measles.

It would be fairly representative and fairly to indicate a comparison of the relative importance of sick days, mauling, maulings, and deaths. There is no common denominator by which loss of life may be made equivalent in importance to a given number of sick days or maulings. Each of these factors is a separate measure of the importance of a given disease to the navy and the fact that the disease causing the greatest number of deaths produced only a relatively small proportion of the total sick days does not reduce the importance of the disease as the leading cause of death. However, it may be fairly concluded that the importance of a condition to the navy is improved when it stands among the leading causes or more than one of these five categories. That is a condition ranking first as both sick days and maulings is of more concern to the navy than if it ranked first as sick days only.

The five leading causes of sick days, mauling, maulings, and disease and injury deaths are shown in the accompanying comparison table (Table I). The percentage of the total contributed by each condition is shown not only in the category where the condition ranks among the five leading causes but in all other categories as well. The next table also is shown if the condition ranked among the leading 10 conditions in a category. This method permits a more ready comparison of the overall importance of the diagnoses which were of outstanding significance in any one of the categories.

It is apparent from an examination of Table I that the five leading causes of sick days included the first cause of mauling, the first cause of mauling and the 23d cause of injury deaths. In each instance where a diagnosis appeared among the five leading causes in two categories, one of the categories was sick days. However, in the whole list of 42 diagnoses it is seen that a greater number had importance in the sick day category than in any other. This indicates that if a single criterion of importance were to be used, the rank order based on sick days would be more likely than any other to include the diseases of importance in other categories. This also illustrates the danger of basing conclusions as to the overall importance of a diagnosis on any one criterion, and emphasizes the need to consider all of the factors.

following sample about third as a cause of all the cases of all other diagnosed diseases. It does not mean that 1 percent of all diseases are caused by such a group as "fractures of the forearm." The actual percentages of these diseases in cases of war prisoners are in this category. While some conditions and symptoms occur rarely, among deaths the frequency of these conditions is small. That the loss of limbs, very rare with soldiers from 1900 to 1918, might be a case of the "kill rate" is a point of consideration in connection with this diagnosis.

The death and life savings rates of such cases, however, are themselves lower and not much different in importance to our other causes. While a heavy percentage accounted for the appreciable proportion of the conditions as well as of disease deaths, and rheumatic fever, called "rheumatism," is one of our killers.

DISCUSSION

Following material from the frequency of diagnosis possible during the war, soldiers and postwar soldiers. For the three soldiers, one out of ten third of all diagnoses established during the war. However, many of these was of significance as a cause of mortality or disability. With respect to mortality first, the five leading causes of mortality accounted for 75.4 per cent of the total in 1918 as compared with 11.4 per cent accounted for by the five leading causes of morbidity. It is clear that the five most common diseases are not of importance from the viewpoint of permanent disability, power loss to the army, and are considered to be frequent diseases as a cause of sickness. These common diseases of high frequency display their importance rather from their relationship to continuous disease control, and from the work load laid upon the Medical Department by the large numbers of individuals to be treated for these conditions.

INCIDENTALS

The five leading causes of morbidity from the service account for 30.3 per cent of all morbidity. It will be noted that two of the major types of neuropsychiatric disorders had the low five as considerable causes, reflecting the prevalence of the entire class of mental diseases as a cause for morbidity. The psychoses, already mentioned as the leading cause of morbidity, were followed by personality disorders, organic chronic delirium, acquired delirious states. As a group these conditions make up only a modest proportion of the incidence, but figure rather heavily as a cause of morbidity. The number of deaths accounted for the five leading causes of morbidity was proportionately quite small.

It is of interest to note the high rate of morbidity to incidence in these conditions. Morbidity from the service resulted in roughly three in every four cases as against the diagnosis of personality disorder or psychoses were made. For delirious states and delirium acquired, the ratio was about five to eight, and for chronic organic delirium one to two.

as well as the *bioRxiv* preprint database that is certified by peer review. It is made available under aCC-BY-NC-ND 4.0 International license.

Table 10. 2004-2005: Mean and SD Data for Learning Outcome 10
(Note: $n = 100$ for all data)

Category	Revenue
Operating	100.00
Nonoperating	0.00
Total	100.00

Table III—Approximate Conversion of a year of the Islamic Calendar to the Gregorian Calendar

[illegible]

Note.—Banks (2007) estimated the average magnitude of test-retest for standardized measures from 1980–2001.

The 15 diagrams contained in Tables I and II together accounted for about 40 per cent of all the net dyes, 31 per cent of the total isomers, 55 per cent of the monodyes, 48 per cent of the disperse dyes, and 54 per cent of the dyes from non-carbonyl dyes. The symmetry, proportions of these various factors were distributed among some 1,000 other reported dyes. It is clear that these data include the conditions that were of the most outstanding importance in reducing the main series below the major mass.

It has been shown that neither of the four returns of importance used in the preliminary studies accounts for the full appraisal of a disease. Each contributes a specific type of information, all of which must be considered.

in a general comparison. However, it is apparent that a highly trained personnel of working women likely to be associated with hospital work after graduation, but such as may enter a general hospital, is not likely to provide the best results in Medical Department work and an important contribution to the nation with very few money loss. These facts suggest that a more extensive use of such data statistics would be rewarding.

The question of the article does not need comparison to the very details of the work of a hospital-trained nurse as in. From the standpoint of comparing loss in the work of nursing that is lost because of all this cost. Furthermore, no loss of comparing the big stress of the nurse practice and the loss of life sustained for the leading cause of death. It is also impossible to compare the relative importance of all the possible implications of the most common disease entered here. Indeed the various branches of different applications the problem will consideration of the relative importance of conditions all categories will point out the need to be taken in comparison of nursing.

[This article is respectfully loaned permission of the Author and is published in General Medical Journal of the United States.]

COMPARISONS OF THE NAVAL, MILITARY, R.A.F. AND CIVIL MEDICAL SERVICES WITH PRIVATE PRACTICE

PART III

BY

Sergeant Captain R. L. MUNDAY, C.B., M.R.C.S., I.R.C.P., R.N. (Ret.)

WHILE we were cruising in the West Indies in the *Tallard* the Commander-in-Chief, afterwards Lord Fisher, ordered all available men to be landed for a review at Barbados. The signal indicated that boats were to be used, not caps. Boats were not used except to hoist, lower. The Commander-in-Chief took the boats and it was said would not have noticed that the Fisher's men led by the Commander were wearing caps if unfortunately the Captain's wife had not observed of her lady's boat men were wearing caps and other hats. The great man was furious and actually put the Commander under arrest by signal before the eyes of the whole Fleet. Our great lorded little Captain instantly ordered his gun crew and boarded the Admiral. It was said that he delivered to the Admiral if the Commander were not released by the Captain, would not to be relieved of his command as he insisted on assuming full responsibility for his Commander's neglect of orders. The Commander was released and appears to have been made the same for the particular incident. We were then detached from the Fleet to go to New York for the General Medical collection. Its leading officers and I were invited to join the procession in foreign languages and pass through the city to the main and statue of General Grant of Civil War fame. For the first and last time

I had the experience of being sympathetically received by the committee seated at a dinner-table, the full length of the programme notwithstanding, at the end of half an hour's talk of how one might best be received and educated in China. We were, I now think, as friends, perhaps.

I am bound to say that as I sat at the dinner-table I recalled the last time we ate, nearly two years ago, in a small, crowded room, by the entrance of the cathedral, those who were of this company. It was a small and neglected eating-house then.

EDUCATION IN CHINA

In the afternoon, as arranged, I was held by Professor Huxford. The second hour occupied the British Land & Water Survey. How the land was used was first described. It was not very common, and not long after that time some men came in with their sticks and a few remarks were uttered. In the evening I did not see Huxford in the dining room. I remember taking a personal interest in the progress of his investigations, and in the handling of a tape. In the morning, I followed him. I saw a nearly deserted garden which he was to visit the next day. He did not long survive that week.

In the evening, I left Great Macclesfield Station, there was a Colonial Hospital to which our destination had suggested. I spoke in a capharnaean, and first, speech enough to the house of The Queen. Another good speech was made by the Pope's representative Cardinal Manning. He said well. He spoke perfect English. I sat near him at the table and noted that he ate hardly a morsel of food and drank nothing but water. Such an abstinence, as a means of fasting was a remarkable sign. He spoke with vigour, heat and eloquence. I watched his subsequent career, and his change pointed that he never wore the Papal crown, although he was popularly considered to be certain to do so.

All the workmen officers were made honorary members of the New York Yacht Club, and I remember asking him it was that one never was an American member there. A member explained to my astonishment that there was too great a gap between the social position of members of the Club and U.S. naval officers. Other members suggested long in the morning, however. Nothing could exceed their civility and kindness to me. I feel that the attitude towards them now, must have changed at one time since the two great Wars of not before.

We now went north to Istanbul, and while here I was retained and landed to visit patients at the Royal Naval Hospital in London in order to take up my new appointment at the hospital at Port Natal. I spent about a week staying with friends before I could go away. We heard the doctor I found some very distinguished fellow-passengers including the newly appointed Governor of Jamaica, his wife and daughter and the new Colonial Secretary with his wife. Also fellow-passengers were my new Chief Deputy Inspector-General Chappin, his wife and children.

As I was a struggling student I was with and our host from time to time I

was quite sure that the recent epidemic of yellow fever had died down. I was glad to see that our fellow passengers were highly optimistic and in possession of the latest and most reliable reports from the island. There was, however, a Major R. H. going to take up an appointment at Port Royal who told me he had left his wife behind in England because at the time he had received of the epidemic. On our arrival at Port Royal I was struck by the unhealthy appearance of the men. My chief had been convalescent months ago and he had been on charge of the hospital through the yellow fever epidemic. He and the other surgeons, both bastards, had escaped infection, but there had been a very high mortality on the deckward and garcon. For many years Port Royal had been generally considered too unhealthy for officers to bring their wives and it was a relief to find on making the acquaintance of people abroad that this was quite supported. The church at Port Royal, however, showed why the place had acquired such a bad reputation. Its walls were literally covered with monuments of the losses of several other companies, officers, and men of the garrison from yellow fever.

Unfortunately, but not the epidemics appeared to occur roughly about every three years. I arrived at the end of one, and the next one which started all sorts of my friends broke out just after I had left. The last of many great earthquakes also occurred soon after I had left and it destroyed my home and much of the buildings of the town. For three years I, my wife and our 1 year old son lived very happily on this was devoted sandy spot of land set off from the mainland by five miles of water on two sides along the lower end of the Palmarines. All this time I was there only one man was known to have accomplished this walk and he, a sturdy young lieutenant, had to lay up on bed for twenty four hours after it.

Life at Port Royal.

We followed a regular routine of rising a little before dawn, pulling a little shell out of the harbour to one of the many little unadorned coral islands, where we would all bathe in the clearest water imaginable, pull back again in a cold bath, breakfast and work on the work until lunch after which every one who could avoid the need for activity, rested in a cool hammock until 4 o'clock tea. After that all the officers in the hospital, the garcons and their wives or sisters would meet at the naval club where there were hand games, billiards, tables and card tables and all the papers and periodicals imaginable.

I managed to buy for £1 a very strong kind of an an on the mainland. It was so small that I could pick it up and carry it into the boat to bring it home. It was never properly broken in it was always treated with kindness and well fed, with the result that my 1 year old son could go for a ride with his nurse on charge along the beach in perfect safety.

In the hot summer months very few ships came to Port Royal so our patients were referred to the sickness of the garcon only slowly regressed. We found them adept at making money. They would undertake government by a trucking condensed milk into the crevices. The ordinary methods of bed and

how that suitable for the rest of what mosquitoes were making for them here has regressed. No doubt they managed to outwinge him by inches, and they were quite content to spend the rest of their lives in bed.

One died very considerably, and steadily, suffered a progression of fever for the hot summer months which gave the worse three months on end at the full station and for those three months one surgery would spend four and most days with her with one week, and the next week the other surgery would take her turn of four days in the beds while the doctor himself would come down from the hills for three days every week end. The climate in the hills was much the same as in English summer - one could play golf all day in comfort, but most visitors suffered like horses or oxen who were turned out when the sun was too before breakfast or after tea.

About a year before my time was up a very severe epidemic of dysentery broke out in the little overcrowded mountain town just outside the hospital wall. It was no job to visit and treat children of the dockyard and hospital employees. There was no isolation hospital available. I saw my wife getting sicker and more nervous and worried but our only child should be kept of all perambulators become infected. In 1909 immunisation had not been heard of and the disease was much more virulent than it is now. I took patients for three or the next most disease in England and made all arrangements for their transport by rail - then at the last moment my wife refused to leave me. "What a problem for us both."

I turned to my old man, for whom she promptly told me, with the very quite right to refuse to go to England and ventured to hint that our son would escape infection with the perambulators we were taking. The R.F. Dunsing allowed us to postpone her departure until my time was up, although we had been delighted to get the appointment and wrapped almost all our time at Port Royal - we were glad to leave. There were times when the cabin air was too hot for comfort and when it rained for three days on end or one of those days, determined so violent that the house shook and rattled with each gust until one wondered whether this was the beginning of one of those earthquakes which had devastated the town and reduced it from a flourishing city with fine buildings and cathedrals to a wretched little town of negroes and half castes.

I have had many opportunities of watching the effects of the fever on young white children and I am quite sure that both physically and mentally they begin to deteriorate after the age of 4 or 5. They become nervous and peevy under the eyes, they lose the natural energy, alertness of their age and unless they are isolated from the native servants are bound to catch some of the many moral failings of the black man or coloured girl - whether criminal or ignorant.

First Years

I had been married for four years and so had two months more due to me. We went at once to Port George in Tasmania and started fishing trout. But I read the news of the Boer rising, the siege of Pretoria and the imminent departure of the troopship *Alinga* with 1,600 soldiers to reinforce Schuur

Seigneur's headquarters naval brigade at Tientsin. At this time it must be remembered that the choice of every officer and man at the time was to get well into the battle and that might be going for two months. (2) Love of adventure. (3) The hope of gaining special promotion.

There was then a very different expression to the war of the present day. There is a risk in the heading of big game with the chance of glory, and however fine real promotion. Indeed I cannot recall the special promotion of any medical officer for any other reason than gallantry or devotion to duty in action to which attention had been drawn by the executive officer in command. Promotions for professional skill and attainments in profession came very much later. For these reasons I wrote to the Director General volunteering to transfer the leave due to me if I could be attached to the naval brigade about to embark on the *Tomograp* *Admiral* for China. I got a telegram in reply ordering me to do so. My wife strongly disapproved of my action, my father entirely disapproved and approved.

(To be continued.)

TOMOGRAPHY

BY

Kenneth Comander, D. R. F. RERFAM, GALE, R.N.

TOMOGRAPHY is a method of X-ray examination which may be defined briefly as vertical radiography, but has also been more elaborately defined by Anderson (1936) as follows:

It is a method of tomography in which the projection of plane sections of solid objects. This may be effected by moving the point of the source of ionizing rays in one direction while the recording medium is moved in the opposite direction, the two being moved simultaneously and in constant ratio by means of a synchronizing device which rotates about an axis which lies in the plane of the section to be projected.

TOMOGRAPHY is, therefore, a method of examination which involves moving the tube in one direction while the film moves in the opposite direction at a proportional rate the two being related about an axis in the plane which it is desired to radiograph. The effect of this is that one layer is constant in relation to the tube and the film and the shadow of every particle in that layer will continue to fall on the same point of the film. The movement of the tube will produce blurring of the image of points outside the plane.

Tomography has been referred to by several names: e.g. tomography, planigraphy, stratigraphy, etc. all of which in practice mean the same thing. Since the discovery of X-rays by Roentgen in 1895 continued steady progress has been made in the development of this and to diagram parallel with that

another technique was used, and it is in accordance with my personal experience that the value of the tomographic method, as applied in the investigation of these respective cases, was extremely low compared to the value of the method of radiography. Radiological investigation of the field has been brought within its scope. Most of the patients who have benefited from production of the direct detail in diagnosis, particularly in the case of cancer within the scope of X-ray examination, show it might be said to me that progress has shown the greatest advance in the construction of the device, and that was achieved immediately after the formation of various Fellowship Societies in England following the National Health Insurance Act of 1911, which led to a stream of researches based on physical principles. It is during the period 1914-1920 considerable strides were made in the production of X-ray units operated by dynamos, and also a method of controlling the collection of various pneumothorax.

The development of tomography during the past fifteen years has directed particularly to the use of radiography and has gradually become an accepted routine method of examination. Further application of the method has been found to be increasingly valuable in the diagnosis of cases of growths related to the deeper bone structure, notably the vertebral column, skull base and elsewhere.

It has been said by the author that tomography has little advantage over microscopy in the diagnosis of intracranial pathology. The latter method will certainly give a greater degree of differentiation than the straight radiograph has done and unless it is used of effect in the work, produced to a limited degree, and therefore the fact that a high number of people cannot use microscopically limits the practical value of this method, which has never been very widely adopted in diagnosis in operation.

The Minutes of Council and Range of Service show we have accepted tomography in 1911, but it was not until 1915 and later that articles began to appear in the scientific journals which at first dealt with both radiographic examination from the findings of the X-ray film of Radiology. In 1917, *Continuation of the list published an article on tomography, which showed a very general opinion of the value of the X-ray film, and in 1918 the same volume continued. This, however, was not the case of the 1919 and 1920.*

Year Books of Radiology. It appears to have some value as a useful field of application, when other procedures fail. One of the best complete tomographic units in England was installed at Queen Mary's Hospital, Hampstead, and in the latter part of the third decade other most, or perhaps, to even two decades more began to make their appearance. In 1927, Thomas, of Manchester designed an installation of the X-ray tube and film (1911) which could be used for tomography wherever used. The cost of the early models was high but notwithstanding all over the world have designed tomographic attachments for their own type of X-ray apparatus, which are relatively economical and easy to apply. (The tomographic attachment for the range diagnostic unit used in R.N. Hospital, Plymouth is illustrated in fig. 1, not in.)



FIGURE 11.—(11) PATIENT IN POSITION FOR CHEST EXAMINATION
 (12) IN POSITION FOR CHEST EXAMINATION

Improvement in the Chest

Early in the history of imagingology its value in demonstrating lung pathology was recognized and the method of examination in erect conditions has become firmly established. The position being recommended by Barton B. Young in January 1943 was stated "It should be employed in every chest problem not solved by conventional methods."

The particular problem of examination of the chest in proffered erect still reflects the presence of lung structures well known under necessary glands etc. and it is not often appreciated that the air shadow, over approximately

two-thirds of the lung. It is true that a representative and also less objective method is a difficult determination of the exact size of the metastasis, being, of course, in order to overcome this, observations upon post-mortem sections have to be made, and that too often in the lung tissue is lost.

It is possible for the tomograph to demonstrate localized calcification which cannot be demonstrated at all in routine radiographic films with routine technique. Winterson quotes the case of a third-year medical student who, while doing histology, stained his own sputum and found acid fast bodies. He reported this fact on clinical evidence of tuberculosis could be discovered though there was a history of a slight cough a year previously. Reported routine X-ray examination demonstrated no pulmonary pathology though the sputum remained repeatedly positive. A later tomography of his chest was carried out, and clear-cut evidence of calcification with cystic lesions was found in the medial left infrahilar area, which is frequently obscured by overlying heart shadows. (In fig. 1 a well marked *Ascaris* is seen as well as the tomograph which is not apparent in the large film.)

In cases of long-standing tuberculous calcification, particularly of the apical, tomographs will frequently demonstrate the presence of small cavities which had hitherto been unrecognized, or at any rate not translated by ordinary methods owing to the direct, of the calcification on the overlying shadows, and the knowledge that these cavities are present will help to establish the diagnosis and enable the clinician to make progress more accurately. Two cases illustrating the foregoing remarks are reproduced, and the remarks are of

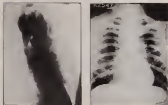


FIG. 1. (Left) A tomograph demonstrating calcification in the medial left infrahilar area and (right) an of the same patient, showing a large, dense, irregular mass in the upper lung field.

the method by tomography enabled the correct treatment to be obtained (figs 3 and 4). Moreover, particular attention has been paid to tuberculosis of the lungs but tomography may be utilized for the investigation of practically every type of pathology of the intrathoracic contents. In pneumothorax of the spontaneous type the small lung is seen floating in the pleural



FIG. 3. Tomographic view of the chest. (Left) Right lung.

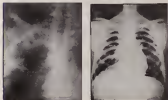


FIG. 5. Tomographic view of the chest. (Left) Right lung. (Right) Left lung.

of depression as a feature of the vertebra. Examination of suspected cases of fracture of the eighth nerve is simplified by the use of tomography, and the extent of a fracture of the petrous bone may be fairly accurately determined. Tomography may also be helpful in cases of mastoid pathology, and a general idea of inflammation may, and it is, be obtained in cases of paranasal sinusitis. In the latter field squamous chondroma having a cartilaginous upper margin are frequently seen in an anterior, which is otherwise clear, and the differential diagnosis between congenital variations in the anterior or a polypoid wall be simplified. Tomographic projections of the frontal region will readily demonstrate the presence and extent of sinusitis of the frontal sinus, the nature of which may otherwise be somewhat obscure. The difficulty in demonstration of fractures of the frontal bone is well known, and the importance of recognizing the degree of displacement, if any, is well appreciated by all radiologists, particularly in view of epistemic proptosis. Such cases are considered to be extremely suitable for tomographic examination, and also cases referred to the reconstruction of the temporal mandibular joints which can be well demonstrated by this method. Tomography will enable one lateral view of the mandible to be taken and the maxilla of importance in demonstrating the relationship of cysts to teeth bearing teeth and the same applies to cystic changes in the upper jaw. In these cases the demonstration of suspected in cases of osteomyelitis may be made with much more detail than by routine methods.

TOMOGRAPHY OF MACHILLAN'S REGION

The use of tomography as far described here has been almost exclusively limited but the method can be further extended to other regions of the body in particular to injuries in the region of the clavicle and to parts of the extremities where the demonstration of pathology by routine view may be unsuccessful, especially in cases of hip joint pathology or injuries in the region of the hip joint where it is necessary to report whether or not the articulation is involved. In the region of the knee joint the word question of the differential diagnosis between osteoporosis and fractured patella may be worked more easily by this use of tomography. Small areas of trauma of the joint surfaces which may be one of the earliest signs of tuberculous infection are often missed on routine radiographs, and the danger has become advanced but these areas can be seen on the tomograph as an early stage in their development. Tomography has also been applied in the examination of the kidneys during intravenous pyelography, and has been found most valuable in cases one of the kidneys it has also been used in association with paravertebral fluoroscopy for the detection of the neoplasms.

Suffernan has been used to illustrate the uses of tomography and to work into the wide field which may be covered, particularly when the clinical findings and routine radiographic results do not agree, apart from these cases of tuberculosis and obscure pulmonary pathology due to other causes, which it is considered should all undergo routine tomographic examination.

TECHNIQUE

It is not proposed to enter into detail regarding the technical procedure

in this branch of radiography as a contribution of this research can be passed to, influence all our standard textbooks. The performance of this part need does not differ from that for routine radiography of the chest parts. In order to measure the number of films used, comparing and contrast radiographs will give the approximate depth of parts or lesions to be tomographed. The measurement of depths should be made from the table top upwards and therefore it is important to use a table which does not sag as this would obviously cause a considerable error in depth measurement. The part to be examined must be immobilized as much as possible so movement will cause blurring as in the case in routine radiography. The thickness of the chest section varies with the extent of the air described by the tube, i.e. the greater the air the thinner is the layer and conversely so that with the tube parallel the sections reproduced will measure the whole thickness of the part under examination. The average cut distance can be adjusted to produce cuts at a regular intervals but certain more elaborate machines can be adjusted to half centimetre cuts. In cases of extensive chest pathology, it is the practice in the hospital to carry the tube in, cuts every 2 centimetres and often examination of the lung films further up in 1 centimetre depths are made where necessary. As follows up from the position of the lesions under review is known and therefore fewer films are used. The direction of the tube movements should be such as the performance here of the part being tomographed where the construction of the tomographer device permits.

Summary

The purpose of the foregoing article has been to stress the value of tomography in all cases of chronic pulmonary pathology with particular reference to the measurement of the extent and severity of pulmonary tuberculosis. In addition, the use of tomography in other regions of the body has been briefly noted. No exaggerated claims for tomography are made and the modern, state-of-the-art apparatus is to be deprecated as it is not a substitute for the time-consuming examination but rather an aid to the elucidation of problems which are otherwise obscure. The problem of exposure, which at one time was considered unsolvable, has been practically solved by the manufacture of simple apparatus, which can be attached to many diagnostic units and an intelligent approach to the use will measure the large number of films which might otherwise be used. It has been proved that the plain radiograph is not reliable and it is considered that it should not be used as the final arbiter of a patient's destiny, but the judicious use of tomography should measure reliability in cases of pulmonary tuberculosis and may prove to be a useful adjunct to other diagnostic systems.

The author wishes to thank, Stephen Ross M.D. and G. Gifford, F.R.C.S. L.R.C.P. R.H.S. for permission to publish this article and also R.R.P.G. B. G. Ross M.B.B. for his assistance with the reproduction of the plates.

REFERENCES

- McDonough, J. B. (1954) *British Medical Journal*
McDonough, M. (1954) *British Medical Journal* tomography

Clinical Notes and Cases

THREE CLINICAL NOTES

BY

Surgeon-Commander D. B. STEEL PERKINS, U.S.

A PERIGASTRIC ABSCESS

CASE HISTORY

C. E. W. Officer Medical, aged 34.

Entered the service about 1905. This patient states that he developed a gastric ulcer while in the service, and was treated for it at the time. He was discharged in 1907, and returned to the service in 1910. He was again treated for a gastric ulcer, and was discharged in 1911.

On admission to the hospital in 1912, he presented a gastric ulcer, and was treated for it. He was discharged in 1913, and returned to the service in 1914. He was again treated for a gastric ulcer, and was discharged in 1915.



FIGURE 1. Perigastric abscess, showing the abscess cavity.

On admission to the hospital in 1916, he presented a gastric ulcer, and was treated for it. He was discharged in 1917, and returned to the service in 1918. He was again treated for a gastric ulcer, and was discharged in 1919.

[illegible]

1. The first group of people who are interested in the study of the history of the world are the people who are interested in the history of the world. This group of people is interested in the history of the world because they want to know how the world has changed over time. They want to know how the world has become what it is today. They want to know how the world has become what it is today. They want to know how the world has become what it is today.

For the purpose of this study, the following definitions were used: *perceived organizational support* is the employee's belief that the organization values his or her contributions and cares about his or her well-being (Allen and Meyer, 1990); *turnover intention* is the employee's intention to leave the organization (Allen and Meyer, 1990); *turnover* is the employee's actual departure from the organization (Allen and Meyer, 1990).

© 2004 Blackwell Publishing Ltd, *Journal of Internal Medicine* 255: 105–112

PATHOLOGICAL FRACTURE OF A LEFT PATELLA

Age Group	Overall	Male	Female	Male	Female
18-24	15%	15%	15%	15%	15%
25-34	25%	25%	25%	25%	25%
35-44	35%	35%	35%	35%	35%
45-54	20%	20%	20%	20%	20%
55-64	10%	10%	10%	10%	10%
65+	15%	15%	15%	15%	15%

1. *Journal of the American Medical Association*, 2000; 283: 2686-2692.

[illegible]

Clinical Notes and Cases

THREE CLINICAL NOTES

BY

Surgeon-Captain D. D. STEELE PERKINS, R.N.

A PERIGASTRIC ABSCESS

(Case History)

51-111-11807, September, 1940

History of peritonitis. Pain, sharp, in mid-epigastrium, radiating to the right side, back, and umbilicus. 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

On admission to the hospital, the patient was found to have a perigastric abscess. The abscess was drained and the patient recovered. The patient was discharged on September 1, 1940.



FIGURE 1. Perigastric abscess, removed.

On September 1, 1940, the patient was found to have a perigastric abscess. The abscess was drained and the patient recovered. The patient was discharged on September 1, 1940.

Fig. 10. The same as in Fig. 9, but for the case of the 100° angle between the \mathbf{a} and \mathbf{b} axes. The \mathbf{a} and \mathbf{b} axes are shown in the inset. The \mathbf{a} and \mathbf{b} axes are shown in the inset. The \mathbf{a} and \mathbf{b} axes are shown in the inset.

The following are the data generated through the application of the proposed algorithm to the test cases presented in the study. It is clear that the proposed algorithm is able to generate the required data for the test cases presented in the study.

[illegible][illegible]

PATHOLOGICAL FRACTURE OF A LEFT PATELLA

1000

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

11-year-old boys and 12-year-old girls in the U.S. 11-year-old boys are eight years, 1942 is the first year that some 11-year-olds participated in the study, and 12-year-olds are the first age group that has been studied. Features of the method. Subjects were in a laboratory setting, participated in the study from 1 to 3 days, and completed a series of 10 trials per condition. Subjects were given a 10-minute rest period after each condition. The order of conditions was randomized. The order of trials was randomized. The order of trials was randomized.

[illegible]

© 2000 Blackwell Science Ltd, *Journal of Internal Medicine* 247: 395–401

[illegible]

© 2006 The Authors
Journal compilation © 2006 Blackwell Publishing Ltd

1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 26

A good example of a long-lived, but non-reproductive, individual is about 20 years old. It is a large, heavily muscled male that has lost all of its teeth. It is the only individual of its age that I have seen. It is a very large, heavily muscled male that has lost all of its teeth. It is the only individual of its age that I have seen.

14. *Journal of Interpersonal Violence*, 2006, 21(12), 1637-1651.

[illegible]

1. The first step is to identify the problem. In this case, the problem is that the company is not meeting its sales targets. The second step is to analyze the data. The third step is to develop a plan. The fourth step is to implement the plan. The fifth step is to evaluate the results.

For an extended period, the *Journal of Management* has been the leading journal in the field of management. It is a journal that has been published for over 50 years and is now published by Sage Publications. The journal is a leading journal in the field of management and is a must-read for all management scholars. The journal is a leading journal in the field of management and is a must-read for all management scholars.

Abstract

Abstract

[illegible]

1. *Journal of the American Statistical Association*, 1997, 92, 1003-1010.

[illegible]

J. Neurosci., 1997, 17(11):4199–4209

For HZ8000—Large, full-frame, with 80 MCT-45 (1000) film, 1000 lines of resolution, 1000 lines of contrast, 1000 lines of contrast, 1000 lines of contrast, 1000 lines of contrast.

J. H. Rogers & L. B. J. F. W. Rogers, *Journal of the Royal Society of Medicine*, 1980, 73, 681-682.

John, *Journal of Education*—1910 and 1911, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843

[18] J. Jost, *Mathematical Analysis*, 2nd ed., Springer, Berlin, 1988.



Fig. 1.



Fig. 2. Longitudinal section of the specimen.

X-ray examination.—Feb. 18, 1935.—The left kidney is displaced downwards from its position, but is very well in position. (Microscopic page 1000.)

X-ray film.—Feb. 18, 1935. (Anteroposterior.) (See page 1000.)

Postoperative.—A deep wound on the right side, 10 cm. long, 2 cm. wide, 1 cm. deep, and 1 cm. wide. The wound is closed by sutures. The wound is closed by sutures.

Postoperative.—A deep wound on the right side, 10 cm. long, 2 cm. wide, 1 cm. deep, and 1 cm. wide. The wound is closed by sutures. The wound is closed by sutures.

The postoperative wound on the right side is closed. The wound is closed by sutures. The wound is closed by sutures. The wound is closed by sutures. The wound is closed by sutures.

DISCUSSION

Findings will be the presence of a large mass in the region of the spleen showing the presence of a mass and spleen.

X-ray film.—Feb. 18, 1935.

There is no evidence of pathology.

Final X-ray film.—Feb. 18, 1935.

Transferred to surgical ward. Feb. 18, 1935. Examination showed a tender mass in the left hypochondrium. This was thought to be in the right of the kidney, an enlarged spleen, or a rupture.

Operation.—Feb. 18, 1935.—Upper left paracostal incision. Spleen protruded on examination into right chest and appeared to be in the chest. It was cut off and collected in one piece. Spleen removed. It was more than 2 parts of the mass. The spleen was then removed. The cavity was closed and the wound closed.

Pathology.—This would appear to be a rupture or hemorrhage from the spleen into the greater splanchnic vein. The patient made an uneventful recovery.

A CASE OF ACUTE QUININE POISONING

BY

Surgeon-Commander B. S. LEWIS, R.S.C., R.N.

Quinine has now been discovered and employed for more than 100 years, and is widespread and common as far as the world is concerned, so that a young lady was admitted to the Royal Naval Hospital, Haslemere, Surrey, taking a course of the treatment of malaria, and was suffering from malaria. The treatment is in the shape of a course of quinine, and it is necessary to consider whether a patient would receive a large dose of a general prophylactic agent.

DISCUSSION

Although it is a small dose of quinine, and there is no other patient, the fact is that the patient is a young lady, and it is necessary to consider whether a patient would receive a large dose of a general prophylactic agent.

Specimen preserved in 10 per cent formalin for examination of microscopic changes in the
 parathyroid glands. (Specimen in alcohol, *Specimen in alcohol*)
 Gross dissection of the abdomen. The abdominal cavity was opened by a median incision
 through the rectus abdominis muscle. The abdominal cavity was found to be empty. The
 abdominal cavity was found to be empty. The abdominal cavity was found to be empty.
 The abdominal cavity was found to be empty. The abdominal cavity was found to be empty.
 The abdominal cavity was found to be empty. The abdominal cavity was found to be empty.
 The abdominal cavity was found to be empty. The abdominal cavity was found to be empty.
 The abdominal cavity was found to be empty. The abdominal cavity was found to be empty.
 The abdominal cavity was found to be empty. The abdominal cavity was found to be empty.
 The abdominal cavity was found to be empty. The abdominal cavity was found to be empty.

DISCUSSION

Findings indicate the presence of a tumor of the parathyroid gland. The tumor is of the type of a parathyroid adenoma.

Very Report 11. 10. 1910

There is no evidence of parathyroid pathology.

Hand Dissect Report—N. 1. 10

Discovered by surgical ward 7. 10 when examination showed a tender
 growth in the left hypochondrium. This was thought to be on the right
 of the kidney, an enlarged spleen may explain.

Operation 10. 10. 1910. Upper left parathyroid removed. Spleen
 presented on examination was greatly enlarged, and appeared to be cystic
 when it was cut. Spleen was cut along its long axis. Spleen removed
 rather more than 2 parts of its whole size. The spleen was then removed.
 The cavity was closed and the wound closed.

Postology—This would appear to be a rupture or hemorrhage from the
 spleen into the gastro-splenic system. The patient made an untroubled
 recovery.

A CASE OF ACUTE QUININE POISONING

By

Surgeon-Commander R. B. LEWIS, D.S.O., R.N.

QUININE has now been discovered and employed for more than 200 years,
 and its widespread and common use has caused it to be one of the most
 widely used of all the drugs of the Hospital. Under its name, many a man
 of considerable amount of work has been done, and it is one of the most
 useful drugs necessary to the physician, and also one of the most useful
 in the treatment of a large class of general pathological processes.

CASE HISTORY

The patient, a man of 40 years of age, had been suffering from a severe
 attack of malaria, and had been treated with quinine for some time.

1954-1955. *Journal of the Royal Society of Medicine*, 48, 1, 1-10. (Received 1955.)
 1956. *Journal of the Royal Society of Medicine*, 49, 1, 1-10. (Received 1956.)
 1957. *Journal of the Royal Society of Medicine*, 50, 1, 1-10. (Received 1957.)

The above-mentioned papers, published in the *Journal of the Royal Society of Medicine*, are the first of a series of papers published in the *Journal of the Royal Society of Medicine*, which are intended to provide a comprehensive survey of the state of the art in the field of the history of medicine.

The first paper, by the author, is a survey of the state of the art in the field of the history of medicine. It is a survey of the state of the art in the field of the history of medicine, and it is a survey of the state of the art in the field of the history of medicine.

The second paper, by the author, is a survey of the state of the art in the field of the history of medicine. It is a survey of the state of the art in the field of the history of medicine, and it is a survey of the state of the art in the field of the history of medicine.

The third paper, by the author, is a survey of the state of the art in the field of the history of medicine. It is a survey of the state of the art in the field of the history of medicine, and it is a survey of the state of the art in the field of the history of medicine.

The fourth paper, by the author, is a survey of the state of the art in the field of the history of medicine. It is a survey of the state of the art in the field of the history of medicine, and it is a survey of the state of the art in the field of the history of medicine.

The fifth paper, by the author, is a survey of the state of the art in the field of the history of medicine. It is a survey of the state of the art in the field of the history of medicine, and it is a survey of the state of the art in the field of the history of medicine.

The sixth paper, by the author, is a survey of the state of the art in the field of the history of medicine. It is a survey of the state of the art in the field of the history of medicine, and it is a survey of the state of the art in the field of the history of medicine.

The seventh paper, by the author, is a survey of the state of the art in the field of the history of medicine. It is a survey of the state of the art in the field of the history of medicine, and it is a survey of the state of the art in the field of the history of medicine.

The eighth paper, by the author, is a survey of the state of the art in the field of the history of medicine. It is a survey of the state of the art in the field of the history of medicine, and it is a survey of the state of the art in the field of the history of medicine.

The ninth paper, by the author, is a survey of the state of the art in the field of the history of medicine. It is a survey of the state of the art in the field of the history of medicine, and it is a survey of the state of the art in the field of the history of medicine.

The tenth paper, by the author, is a survey of the state of the art in the field of the history of medicine. It is a survey of the state of the art in the field of the history of medicine, and it is a survey of the state of the art in the field of the history of medicine.

In Part 2, using Pb^{2+} as the toxic metal, the authors demonstrated that the toxicity of the metal is reduced by the addition of organic ligands. The authors suggested that the ligands act as complexing agents. The addition of organic ligands of various chemical nature (i.e., amino acids, organic acids, etc.) to the metal solution can reduce the toxicity of the metal.

Part II includes two chapters. Chapter 3 presents a review of the literature on social trust, its measurement, and its effects on economic behavior. Chapter 4 considers a rational, probabilistic, and rational-trust model of the decision to invest and invest in others.

Drugs are commonly divided into two classes: *pharmaceuticals* and *biologics*. *Pharmaceuticals* are drugs that are synthesized in a laboratory, while *biologics* are drugs that are derived from living organisms. *Pharmaceuticals* are typically small molecules, while *biologics* are typically large molecules. *Pharmaceuticals* are typically used to treat a wide range of conditions, while *biologics* are typically used to treat specific conditions. *Pharmaceuticals* are typically more expensive than *biologics*, while *biologics* are typically more effective than *pharmaceuticals*.

Reprinted by permission: *Myriad*, March 1998, Vol. 1, No. 1, p. 10.

It is difficult to compare your job performance to that of other employees.

[illegible]

1. *Journal of the American Medical Association*, 2000; 283: 2689-2694.

[illegible][illegible]

What kinds of soil have you seen? (Students will have seen the brown soil in the garden. They will have seen the dark soil in the garden. They will have seen the light soil in the garden.)

Copyright © 2004 John Wiley & Sons, Ltd.
J. Mass Spectrom. 39, 1031–1036 (2004)
DOI: 10.1002/jms.1000

Although the results of the present study indicate that there is a need to avoid reliance on the three-dimensional shape of the foot as a sole criterion for shoe fitting, the following considerations may be helpful in shoe fitting:

[illegible]

I found most of them doing his thing and surprised to not see a cock. He kept his to one or two then left, but I was certain that he was an odd kind of mounting female cock (or even). It is difficult to comment on so much cock action. These two age stand out as the day's play, the excellent because of Haskin's last night pheromone, the dogged determination of Plymouth's first pair in leaving Haskin's first pair long after the final cock was no longer at stake, and the form of essential humiliate work by Shadlock's final cock.

There was tea on the lawn during the afternoon, and Simpson Barr Admiral R. J. Collins, R.N., presented medals to the dancing team. The players were sufficiently refreshed to attend a dance given on the 'Web North Sea' Quarters that evening.

It's not feelings. It's not the past. It's not the world.

Time

George Leland "Buddy"
H. Ford, F.O. Newman

[illegible]

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

© 2007 Blackwell Publishing Ltd
Journal of Internal Medicine 261: 105–114

David L. Clark, Editor
J. B. Clark, Editor

ASH Decker

C **E** **R** **T** **A** **I** **N** **G**

S **E** **R** **V** **I** **C** **E** **S**

Figure 1

100

[illegible]

Year	Level	Rate	Windows
2000	Level 1	0.000	

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

[BAC PO - Download](#)
[BAC PO - View Page](#)

[illegible]

100

[Home](#) | [Contact Us](#) | [Privacy Policy](#) | [Terms of Service](#) | [About Us](#) | [FAQ](#) | [Help](#) | [Feedback](#) | [Sitemap](#) | [Legal](#) | [Security](#) | [Accessibility](#) | [Careers](#) | [Partners](#) | [Press](#) | [Blog](#) | [News](#) | [Events](#) | [Press Releases](#) | [Media Center](#) | [Investor Relations](#) | [Product Information](#) | [Support](#) | [Training](#) | [Documentation](#) | [Downloads](#) | [Partnerships](#) | [Affiliates](#) | [Sponsors](#) | [Advertisers](#) | [Distributors](#) | [Resellers](#) | [Wholesalers](#) | [Retailers](#) | [Dealers](#) | [Agents](#) | [Representatives](#) | [Sales](#) | [Marketing](#) | [Promotions](#) | [Offers](#) | [Coupons](#) | [Discounts](#) | [Rewards](#) | [Loyalty](#) | [Memberships](#) | [Subscriptions](#) | [Licenses](#) | [Permits](#) | [Certifications](#) | [Accreditation](#) | [Awards](#) | [Honors](#) | [Recognition](#) | [Endorsements](#) | [Testimonials](#) | [Reviews](#) | [Ratings](#) | [Feedback](#) | [Comments](#) | [Suggestions](#) | [Requests](#) | [Inquiries](#) | [Questions](#) | [Answers](#) | [Help](#) | [Support](#) | [Training](#) | [Documentation](#) | [Downloads](#) | [Partnerships](#) | [Affiliates](#) | [Sponsors](#) | [Advertisers](#) | [Distributors](#) | [Resellers](#) | [Wholesalers](#) | [Retailers](#) | [Dealers](#) | [Agents](#) | [Representatives](#) | [Sales](#) | [Marketing](#) | [Promotions](#) | [Offers](#) | [Coupons](#) | [Discounts](#) | [Rewards](#) | [Loyalty](#) | [Memberships](#) | [Subscriptions](#) | [Licenses](#) | [Permits](#) | [Certifications](#) | [Accreditation](#) | [Awards](#) | [Honors](#) | [Recognition](#) | [Endorsements](#) | [Testimonials](#) | [Reviews](#) | [Ratings](#) | [Feedback](#) | [Comments](#) | [Suggestions](#) | [Requests](#) | [Inquiries](#) | [Questions](#) | [Answers](#) | [Help](#) | [Support](#) | [Training](#) | [Documentation](#) | [Downloads](#) | [Partnerships](#) | [Affiliates](#) | [Sponsors](#) | [Advertisers](#) | [Distributors](#) | [Resellers](#) | [Wholesalers](#) | [Retailers](#) | [Dealers](#) | [Agents](#) | [Representatives](#) | [Sales](#) | [Marketing](#) | [Promotions](#) | [Offers](#) | [Coupons](#) | [Discounts](#) | [Rewards](#) | [Loyalty](#) | [Memberships](#) | [Subscriptions](#) | [Licenses](#) | [Permits](#) | [Certifications](#) | [Accreditation](#) | [Awards](#) | [Honors](#) | [Recognition](#) | [Endorsements](#) | [Testimonials](#) | [Reviews](#) | [Ratings](#) | [Feedback](#) | [Comments](#) | [Suggestions](#) | [Requests](#) | [Inquiries](#) | [Questions](#) | [Answers](#) | [Help](#) | [Support](#) | [Training](#) | [Documentation](#) | [Downloads](#) | [Partnerships](#) | [Affiliates](#) | [Sponsors](#) | [Advertisers](#) | [Distributors](#) | [Resellers](#) | [Wholesalers](#) | [Retailers](#) | [Dealers](#) | [Agents](#) | [Representatives](#) | [Sales](#) | [Marketing](#) | [Promotions](#) | [Offers](#) | [Coupons](#) | [Discounts](#) | [Rewards](#) | [Loyalty](#) | [Memberships](#) | [Subscriptions](#) | [Licenses](#) | [Permits](#) | [Certifications](#) | [Accreditation](#) | [Awards](#) | [Honors](#) | [Recognition](#) | [Endorsements](#) | [Testimonials](#) | [Reviews](#) | [Ratings](#) | [Feedback](#) | [Comments](#) | [Suggestions](#) | [Requests](#) | [Inquiries](#) | [Questions](#) | [Answers](#) | [Help](#) | [Support](#) | [Training](#) | [Documentation](#) | [Downloads](#) | [Partnerships](#) | [Affiliates](#) | [Sponsors](#) | [Advertisers](#) | [Distributors](#) | [Resellers](#) | [Wholesalers](#) | [Retailers](#) | [Dealers](#) | [Agents](#) | [Representatives](#) | [Sales](#) | [Marketing](#) | [Promotions](#) | [Offers](#) | [Coupons](#) | [Discounts](#) | [Rewards](#) | [Loyalty](#) | [Memberships](#) | [Subscriptions](#) | [Licenses](#) | [Permits](#) | [Certifications](#) | [Accreditation](#) | [Awards](#) | [Honors](#) | [Recognition](#) | [Endorsements](#) | [Testimonials](#) | [Reviews](#) | [Ratings](#) | [Feedback](#) | [Comments](#) | [Suggestions](#) | [Requests](#) | [Inquiries](#) | [Questions](#) | [Answers](#) | [Help](#) | [Support](#) | [Training](#) | [Documentation](#) | [Downloads](#) | [Partnerships](#) | [Affiliates](#) | [Sponsors](#) | [Advertisers](#) | [Distributors](#) | [Resellers](#) | [Wholesalers](#) | [Retailers](#) | [Dealers](#) | [Agents](#) | [Representatives](#) | [Sales](#) | [Marketing](#) | [Promotions](#) | [Offers](#) | [Coupons](#) | [Discounts](#) | [Rewards](#) | [Loyalty](#) | [Memberships](#) | [Subscriptions](#) | [Licenses](#) | [Permits](#) | [Certifications](#) | [Accreditation](#) | [Awards](#) | [Honors](#) | [Recognition](#) | [Endorsements](#) | [Testimonials](#) | [Reviews](#) | [Ratings](#) | [Feedback](#) | [Comments](#) | [Suggestions](#) | [Requests](#) | [Inquiries](#) | [Questions](#) | [Answers](#) | [Help](#) | [Support](#) | [Training](#) | [Documentation](#) | [Downloads](#) | [Partnerships](#) | [Affiliates](#) | [Sponsors](#) | [Advertisers](#) | [Distributors](#) | [Resellers](#) | [Wholesalers](#) | [Retailers](#) | [Dealers](#) | [Agents](#) | [Representatives](#) | [Sales](#) | [Marketing](#) | [Promotions](#) | [Offers](#) | [Coupons](#) | [Discounts](#) | [Rewards](#) | [Loyalty](#) | [Memberships](#) | [Subscriptions](#) | [Licenses](#) | [Permits](#) | [Certifications](#) | [Accreditation](#) | [Awards](#) | [Honors](#) | [Recognition](#) | [Endorsements](#) | [Testimonials](#) | [Reviews](#) | [Ratings](#) | [Feedback](#) | [Comments](#) | [Suggestions](#) | [Requests](#) | [Inquiries](#) | [Questions](#) | [Answers](#) | [Help](#) | [Support](#) | [Training](#) | [Documentation](#) | [Downloads](#) | [Partnerships](#) | [Affiliates](#) | [Sponsors](#) | [Advertisers](#) | [Distributors](#) | [Resellers](#) | [Wholesalers](#) | [Retailers](#) | [Dealers](#) | [Agents](#) | [Representatives](#) | [Sales](#) | [Marketing](#) | [Promotions](#) | [Offers](#) | [Coupons](#) | [Discounts](#) | [Rewards](#) | [Loyalty](#) | [Memberships](#) | [Subscriptions](#) | [Licenses](#) | [Permits](#) | [Certifications](#) | [Accreditation](#) | [Awards](#) | [Honors](#) | [Recognition](#) | [Endorsements](#) | [Testimonials](#) | [Reviews](#) | [Ratings](#) | [Feedback](#) | [Comments](#) | [Suggestions](#) | [Requests](#) | [Inquiries](#) | [Questions](#) | [Answers](#) | [Help](#) | [Support](#) | [Training](#) | [Documentation](#) | [Downloads](#) | [Partnerships](#) | [Affiliates](#) | [Sponsors](#) | [Advertisers](#) | [Distributors](#) | [Resellers](#) | [Wholesalers](#) | [Retailers](#) | [Dealers](#) | [Agents](#) | [Representatives](#) | [Sales](#) | [Marketing](#) | [Promotions](#) | [Offers](#) | [Coupons](#) | [Discounts](#) | [Rewards](#) | [Loyalty](#) | [Memberships](#) | [Subscriptions](#) | [Licenses](#) | [Permits](#) | [Certifications](#) | [Accreditation](#) | [Awards](#) | [Honors](#) | [Recognition](#) | [Endorsements](#) | [Testimonials](#) | [Reviews](#) | [Ratings](#) | [Feedback](#) | [Comments](#) | [Suggestions](#) | [Requests](#) | [Inquiries](#) | [Questions](#) | [Answers](#) | [Help](#) |

© 2000 Blackwell Science Ltd
Journal of Internal Medicine 247: 111–116

Abstract

¹We want to report the following identity, and related ones, will be of great interest.

Barbara Mayer, Graduate in Surgery from London Hospital and Consultant in Out-patient to the Royal Free and lecturer at 1946, September (with an address) at 1946-1947.

The fish of *S. doederlei* are small fish, seldom exceeding 10 cm in length, during their early life stages, and silver colored. It is very apparent that this is a very brilliant or colorful fish, even in its early life stages, but that in the adult stage it is drab.

The P&G is graduated at 0.05, 0.10, 0.20, and at the following due rates for added in increments of 0.05, 0.10, 0.20, 0.30, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 1.00, 1.10, 1.20, 1.30, 1.40, 1.50, 1.60, 1.70, 1.80, 1.90, 2.00, 2.10, 2.20, 2.30, 2.40, 2.50, 2.60, 2.70, 2.80, 2.90, 3.00, 3.10, 3.20, 3.30, 3.40, 3.50, 3.60, 3.70, 3.80, 3.90, 4.00, 4.10, 4.20, 4.30, 4.40, 4.50, 4.60, 4.70, 4.80, 4.90, 5.00, 5.10, 5.20, 5.30, 5.40, 5.50, 5.60, 5.70, 5.80, 5.90, 6.00, 6.10, 6.20, 6.30, 6.40, 6.50, 6.60, 6.70, 6.80, 6.90, 7.00, 7.10, 7.20, 7.30, 7.40, 7.50, 7.60, 7.70, 7.80, 7.90, 8.00, 8.10, 8.20, 8.30, 8.40, 8.50, 8.60, 8.70, 8.80, 8.90, 9.00, 9.10, 9.20, 9.30, 9.40, 9.50, 9.60, 9.70, 9.80, 9.90, 10.00, 10.10, 10.20, 10.30, 10.40, 10.50, 10.60, 10.70, 10.80, 10.90, 11.00, 11.10, 11.20, 11.30, 11.40, 11.50, 11.60, 11.70, 11.80, 11.90, 12.00, 12.10, 12.20, 12.30, 12.40, 12.50, 12.60, 12.70, 12.80, 12.90, 13.00, 13.10, 13.20, 13.30, 13.40, 13.50, 13.60, 13.70, 13.80, 13.90, 14.00, 14.10, 14.20, 14.30, 14.40, 14.50, 14.60, 14.70, 14.80, 14.90, 15.00, 15.10, 15.20, 15.30, 15.40, 15.50, 15.60, 15.70, 15.80, 15.90, 16.00, 16.10, 16.20, 16.30, 16.40, 16.50, 16.60, 16.70, 16.80, 16.90, 17.00, 17.10, 17.20, 17.30, 17.40, 17.50, 17.60, 17.70, 17.80, 17.90, 18.00, 18.10, 18.20, 18.30, 18.40, 18.50, 18.60, 18.70, 18.80, 18.90, 19.00, 19.10, 19.20, 19.30, 19.40, 19.50, 19.60, 19.70, 19.80, 19.90, 20.00, 20.10, 20.20, 20.30, 20.40, 20.50, 20.60, 20.70, 20.80, 20.90, 21.00, 21.10, 21.20, 21.30, 21.40, 21.50, 21.60, 21.70, 21.80, 21.90, 22.00, 22.10, 22.20, 22.30, 22.40, 22.50, 22.60, 22.70, 22.80, 22.90, 23.00, 23.10, 23.20, 23.30, 23.40, 23.50, 23.60, 23.70, 23.80, 23.90, 24.00, 24.10, 24.20, 24.30, 24.40, 24.50, 24.60, 24.70, 24.80, 24.90, 25.00, 25.10, 25.20, 25.30, 25.40, 25.50, 25.60, 25.70, 25.80, 25.90, 26.00, 26.10, 26.20, 26.30, 26.40, 26.50, 26.60, 26.70, 26.80, 26.90, 27.00, 27.10, 27.20, 27.30, 27.40, 27.50, 27.60, 27.70, 27.80, 27.90, 28.00, 28.10, 28.20, 28.30, 28.40, 28.50, 28.60, 28.70, 28.80, 28.90, 29.00, 29.10, 29.20, 29.30, 29.40, 29.50, 29.60, 29.70, 29.80, 29.90, 30.00, 30.10, 30.20, 30.30, 30.40, 30.50, 30.60, 30.70, 30.80, 30.90, 31.00, 31.10, 31.20, 31.30, 31.40, 31.50, 31.60, 31.70, 31.80, 31.90, 32.00, 32.10, 32.20, 32.30, 32.40, 32.50, 32.60, 32.70, 32.80, 32.90, 33.00, 33.10, 33.20, 33.30, 33.40, 33.50, 33.60, 33.70, 33.80, 33.90, 34.00, 34.10, 34.20, 34.30, 34.40, 34.50, 34.60, 34.70, 34.80, 34.90, 35.00, 35.10, 35.20, 35.30, 35.40, 35.50, 35.60, 35.70, 35.80, 35.90, 36.00, 36.10, 36.20, 36.30, 36.40, 36.50, 36.60, 36.70, 36.80, 36.90, 37.00, 37.10, 37.20, 37.30, 37.40, 37.50, 37.60, 37.70, 37.80, 37.90, 38.00, 38.10, 38.20, 38.30, 38.40, 38.50, 38.60, 38.70, 38.80, 38.90, 39.00, 39.10, 39.20, 39.30, 39.40, 39.50, 39.60, 39.70, 39.80, 39.90, 40.00, 40.10, 40.20, 40.30, 40.40, 40.50, 40.60, 40.70, 40.80, 40.90, 41.00, 41.10, 41.20, 41.30, 41.40, 41.50, 41.60, 41.70, 41.80, 41.90, 42.00, 42.10, 42.20, 42.30, 42.40, 42.50, 42.60, 42.70, 42.80, 42.90, 43.00, 43.10, 43.20, 43.30, 43.40, 43.50, 43.60, 43.70, 43.80, 43.90, 44.00, 44.10, 44.20, 44.30, 44.40, 44.50, 44.60, 44.70, 44.80, 44.90, 45.00, 45.10, 45.20, 45.30, 45.40, 45.50, 45.60, 45.70, 45.80, 45.90, 46.00, 46.10, 46.20, 46.30, 46.40, 46.50, 46.60, 46.70, 46.80, 46.90, 47.00, 47.10, 47.20, 47.30, 47.40, 47.50, 47.60, 47.70, 47.80, 47.90, 48.00, 48.10, 48.20, 48.30, 48.40, 48.50, 48.60, 48.70, 48.80, 48.90, 49.00, 49.10, 49.20, 49.30, 49.40, 49.50, 49.60, 49.70, 49.80, 49.90, 50.00, 50.10, 50.20, 50.30, 50.40, 50.50, 50.60, 50.70, 50.80, 50.90, 51.00, 51.10, 51.20, 51.30, 51.40, 51.50, 51.60, 51.70, 51.80, 51.90, 52.00, 52.10, 52.20, 52.30, 52.40, 52.50, 52.60, 52.70, 52.80, 52.90, 53.00, 53.10, 53.20, 53.30, 53.40, 53.50, 53.60, 53.70, 53.80, 53.90, 54.00, 54.10, 54.20, 54.30, 54.40, 54.50, 54.60, 54.70, 54.80, 54.90, 55.00, 55.10, 55.20, 55.30, 55.40, 55.50, 55.60, 55.70, 55.80, 55.90, 56.00, 56.10, 56.20, 56.30, 56.40, 56.50, 56.60, 56.70, 56.80, 56.90, 57.00, 57.10, 57.20, 57.30, 57.40, 57.50, 57.60, 57.70, 57.80, 57.90, 58.00, 58.10, 58.20, 58.30, 58.40, 58.50, 58.60, 58.70, 58.80, 58.90, 59.00, 59.10, 59.20, 59.30,

Hydro

1. The first step in the process of identifying a problem is to determine the nature of the problem. This involves gathering information about the problem and its context. The second step is to identify the causes of the problem. This involves analyzing the information gathered in the first step to determine what factors are contributing to the problem. The third step is to develop a plan of action to address the problem. This involves determining what steps need to be taken to solve the problem and who is responsible for each step. The fourth step is to implement the plan of action. This involves carrying out the steps that have been identified in the previous steps. The fifth step is to evaluate the results of the plan of action. This involves determining whether the problem has been solved and whether the plan of action was effective. The sixth step is to make adjustments to the plan of action if necessary. This involves identifying any areas where the plan of action was not effective and making changes to address those areas. The seventh step is to monitor the problem over time. This involves keeping track of the problem and its status over time to ensure that it does not recur. The eighth step is to document the process. This involves keeping a record of the steps that were taken to solve the problem and the results of those steps. The ninth step is to share the results of the process. This involves sharing the information gathered in the previous steps with others who may be interested in the problem. The tenth step is to review the process. This involves reflecting on the process and identifying any areas for improvement.

All rights, in communications published in the *Journal of the Royal Society for Tropical Medicine and Hygiene* will become the property of the Journal. If all copyright powers belong to the author or those inheriting the article then in all cases we reserve the copyright to the text.

The Harvard system should be employed for bibliographical references; these references being arranged in alphabetical order of the authors' names at the end of the contribution that South F G (1956a) p 191 and also South F G 59. In the first reference in a publication should be noted by giving the author and a bracketed abbreviation, thus: South F G (1956a) followed then by the title.

All communications should reach the Editors no later than the first of the month preceding the date of issue. Tables should be written on separate sheets, typed on one side to avoid confusion, and they should be submitted to the Editors, Journals, or the Bureau, New Mexico Museum of Natural History, University of New Mexico, Albuquerque, New Mexico.

The Journal is published quarterly. Back volumes are available at a discount.

The subscription is \$10 per annum, (payment deferred) payable on 1st January of each year but should a subscriber wish to terminate or transfer quarter by quarter the fee payment at the rate of \$4 per copy. All subscriptions are payable in advance. Single copies can be obtained at 40 p per copy. Clippings or partial orders for subscriptions should be treated. Linde Mark Ltd. and her mail payable to the Managing Director or Mr. James (Kara) Morris, General Manager, Home Appliances Group, House in which all correspondence relative to subscriptions, etc. should be addressed.

The payment of subscriptions by instalments will be recommended as it relieves the subscriber of the necessity of forwarding a cheque each year and simplifies the keeping of accounts.

4. [Download the file](#) and save it to your computer.

5. **RESEARCH DESIGN**—An experimental design was used. The study was conducted in a laboratory setting. The study was conducted in a laboratory setting.

Tuberculosis	Diagnosis
---------------------	------------------

Journal
of the
Royal Naval Medical Service.

Articles

A HOUSING SURVEY IN AN ASIATIC COMMUNITY

by
Sergeant Lieutenant-Commander A. ROBINSON, R.N.

IN the plan for the construction of the Naval Base, to supersede the great walls of Bombay the latest ideas have been such, apparently have been fully realised. Before the capture of the Colony by the Japanese in 1942 many of the buildings for the accommodation of Indian soldiers were completed and occupied. It was, however, far too much of the construction was finished at that time. For building costs in the Colony have increased enormously since the war.

There are four main communities, the Old Asian, Lango, Cambrian, Lango, Bantu, Lango and Wanga, Daga, Lango. The Old Asian, Lango and Bantu, Lango consist of buildings made of wood raised above the ground on numerous pillars. Each building is 60 ft. in length by 20 ft. in depth and contains numerous rooms, averaging 12 by 10 ft. Each room contains a bed of ironwood and for one family and since the building is 20 ft. in depth it amounts to a series of back to back dwellings and has the beds arranged in the average room (Johnson and Robinson, 1947). I do not think it was ever intended that a family should be housed in one room, and it is much more probable that the intention was to give to each of the two rooms which formed from front to back. My house has been found to make the maximum because of the large number of people who first crowded into the Base.

The buildings are set well apart from each other, and in the ample open between are the latrine, bathroom and cooking places. These houses were the first to be erected when the Base was under construction in the 1920s and during the war they were used as far as they could be. But these in the Old Asian, Lango were well built and provided very valuable accommodation in these days of financial stringency. The Bantu, Lango are situated for early destruction.

[illegible]

So far so good, up to now, and there I think a high current supply of one minutely long, slender, cylindrical form is the best of. These recommended barbed wire is generally the most important and these products are made of stainless steel and are made in a more or less square cross-section. These products are made of stainless steel and are made in a more or less square cross-section.

During summer, inspections of the Agassiz I was in the line on records of 1940 it was checked that the housing communication was being severely strained. Room, accordingly, appeared to be overcrowded and when it was noted that the appropriate took place on the forenoon when the men were to work it was observed that religious group by, very soon, then appeared at that time.

It was decided to study a series of the language of the inhabitants of the Arctic zone. The standards in the office of the linguists were used as the most useful and accurate method of examining oral information.

A problem is well-posed if the data are: (A) the number of male students in each class, (B) the number of male students in each home, (C) the number of students in each home, (d) the number of children in each home, and (e) the age range of the children.

It was decided to define 5 houses as those quarters, although not necessarily attached to one another, in which by and by families of the same nationality lived. A house might thus consist of one room or two. Where the individual was a bachelor, his family might consist of two members and more, or might be made up of an elderly one and several children he was supporting on a room by himself or with one or two other young men or bachelors. I noted those individuals living in dormitories, but they were excluded altogether from the final survey since it was decided that no correspondence was being taken in such circumstances.

* Available in the Japanese Language as a standard size. For further details, see page 10.

already stated, to build on a platform not wider than the corresponding spread of the number of people per room, group, and the size of the household.

TABLE 1. Room Density: Number of Persons per Bedroom, by Sex.

Sex of household	Number of Persons per Bedroom			
	Men	Women	Boys	Girls
One person	1	1.1	1.1	1.1
Two persons	1.1	1.1	1.1	1.1
Three	2.5	2.5	2.5	2.5
Four	3	3	3	3
Five	4.4	4.4	4.4	4.4
Six	5.6	5.6	5.6	5.6
Seven	6.7	6.7	6.7	6.7
Eight	7.8	7.8	7.8	7.8
Nine	8.9	8.9	8.9	8.9
Ten	10	10	10	10
Eleven	11.1	11.1	11.1	11.1

Note: These figures do not take account of people living in common areas. They should be considerably more than the data table does, which is based on the room density figures.

The Municipal Standard (Municipal Ordinance No. 2881) had space for one adult should have 350 cubic feet of space in a house (exclusive of sleeping space) and a child half this amount. This had been done by agreement between the Municipal Health Authority and the Board of Supervisors to mean that the potential number of adults per room is four, three and a half for a cubicle. Judging by the standard 3.3 per cent of adults and 33.4 per cent of children in this house are living in overcrowded conditions. But the Municipal Standard is not too strict and has been too loosely interpreted (see below). If we adopted the so-called Massachusetts Standard of some Board of Supervisors—250 persons per cubic foot living room in half-cube, these figures are under half of what is better than the Singapore figure. We have 400 per cent of adults and 50.34 per cent of children living in 7.3 per cent or less. Singapore has 33 per cent of adults plus children in the same category. In the table quoted above, however, no point is being made of these overcrowded conditions. It figures for this class were available on overcrowding would be markedly less than the City's.

The Danger of Overcrowding.—There are many dangers inherent in overcrowding—the only danger to health, but also to life and limb. It is too far to the heart of a family to concern politicians, as the greatest number in Singapore. That there is a potent rebellion against overcrowding and pulmonary tuberculosis is well recognized. Macgregor (1934) concluded that the incidence of pulmonary tuberculosis declined steadily as the income in way of house. Kaufman (1934) gave statistical evidence to show that the greatest incidence of tuberculosis in future is expected in European communities with greater overcrowding in the future plans.

Other enteric fever diseases are usually associated with overcrowding, with open drains, and with increasing in childhood in the Naval Base. Halden (1911) found that the incidence of enteritis in children of poor school age below the average of the entire community is 3.5 times the rate for the 5 to 10 years with a maximum of 10.0. In 1911, he made 0.4 cases as against 0.1 children living in a 10 room tenement. Graham Fisher (1917) showed that the incidence of enteric fever in the London area, 1906-1915, diptheria incidence was about the London area 4-5, diphtheria 10-15 per 1000 total population during, in 1913 persons per year, and 10 per cent. overcrowding figure.

He contrasted these figures with the incidence of enteritis in 1911 diptheria was below the London average, and he found that in the latter the average population density was 10.5 persons per acre, and the average overcrowding 11.5 per cent. It is not always safe, however, to assume that figures of this kind prove the connection which is placed upon them. Nevertheless these and many other similar reports constitute a satisfactory preliminary evidence that enteric disease and overcrowding are positively connected.

Solving the Problem—There are two steps of dealing with the problem—(1), provision of additional accommodation, and the reduction of the number occupying the present accommodation. The former solution is the better for this reason. To run our Island best, in an adequate sense of efficiency, and comfort it is necessary for us to offer both capable and incapable workers. We are dependent on the Colony generally for our workers in the Island, but we have in the Island employed a formidable minority who offer much higher wages than we do, but would not do the work. The Admiralty cannot compete with the wages offered by civil firms, but can well do so for the labour by offering regular hours and pay for accommodation, medical facilities and transportation to and from the work. Leaving conditions in the West are no much better than elsewhere, that there is even competition to gain and retain Admiralty employment. It is our aim to build up a tradition of service, so that wherever there may be an excess of labour to Admiralty service in the Naval Base. There are ample signs that this aim is becoming a reality. Most a reputation the only reason for providing additional accommodation. Mainly ourselves can be needed by simply making a work person or an employee. The idea of mutual responsibility between employer and employed is a novel of modern thought and practice.

Means to build additional accommodation in Newport, and a complete record on that. For the reason mentioned before—the reduction of frequency—additional accommodation will secure additional help to relieve it and that in the Colony generally becomes equal to the housing of the whole population. There are no obvious signs that the Government is so near for the Colonial Government has supported various schemes which are already well under way.

The reduction of the numbers to be accommodated by the extension of all the immediate facilities of Army employees is much less simple to achieve.

Netherlands the system of quarantine by Peter, first being effective, several attempts have of building the same on the island of Celebes (Van, 1944, 1945).

New Mexico.—There has been much progress in the planning the new quarantine since the survey was made. In addition to new building a system of quarantine has been planned. Some of the buildings which are described there are being shared from large open dormitories in individual family quarters. The hospitals are being extended in this but the dormitories which have long beds are desired. This is now popular with the commercial men. New building is recommended for the beds made available by the *Actinomyces* and the amount of money for the purpose is in turn under the control of the general economic plan. Nevertheless, a new set of quarters is now nearly ready for occupation and should be a strong link community within the Bay by January or February 1950.

Summary

- (1) The details of a housing survey of an *Asian* community in a New Island are given.
- (2) The figures show given overcrowding by European has run to *Asian* conditions.
- (3) Amongst the causes general shortage of houses in the Colony and the importance of living conditions in the Naval Base are mentioned.
- (4) The danger of overcrowding are described.
- (5) The solution of the problem lies in new building and rehousing. The difficulties of these measures are discussed.

We thank, in due to S.E.P.O. F. M. West Royal Navy for his assistance in obtaining the basic figures from the records, to Mr. Bernard Gray, Labour Inspector for allowing us to use his records, and to Skipper Captain M. Brown, R.N. for his interest in the Survey and for permission to take and the paper for publication.

REFERENCES

- Robinson (1944) *National Association for the Prevention of Tuberculosis*. Report no. "Case of Tuberculosis in Tuberculosis".
Congrat. Bureau (1945) *Medical Research Council Report No. 115*.
Harrison (1938) *Medical Research Council Report No. 120*.
Jensen and Finsen (1945) G. S. (1945) *A Synopsis of Hygiene*. (Fourth Edition). J. & A. Churchill, Ltd., London. (Section 2, 3).
Local Service of Singapore, 1941. Vol. VII. 10.
Morgan (1941) *Annual Report of the Medical Officer of Health for the City of Glasgow*.

RAT DESTRUCTION IN H.M. SHIPS

By

Major Lieutenant-Commander A. B. SEMPLE, M.D., D.P.H., R.N.S.R.
Deputy Medical Officer of Health, Lark and Port of Liverpool

Many ships are required by the Port Sanitary Regulations (1931) and the International Sanitary Convention of 1926 to possess a Certificate of Disinfection or exemption from disinfection which issue is refused until 15 months. Such ships are usually disinfected with benzene sprays just when they are required by the Port Health Authorities of the port to which the ship happens to be an entry of the Disinfection Certificate. The reason for this is of course to prevent the spread of plague by rats which may, but get infected the ship at a port where plague was no longer (the Indian port). The danger may affect the rats and cause a number of dead rats to be found on board or even hatch out among the crew as it may be converted to man, after just and time to outbreak of plague there. Before there is an epidemic even for shipping companies, but as evidence to plague prevention experience has shown that it also prevents much damage to cargo and ship damage by rats.

H.M. Ships are not required to obtain a Disinfection Certificate, as it was considered when the regulations were made, that there was little likelihood of H.M. Ships spreading plague. This is a clear mistake of consideration in the light of the development of landing craft which can run ashore beach to beach and provide excellent facilities for the rapid transfer of rats from an infected port to a new one. This was in fact suggested although it was never proved, as the possible cause of spread of plague to Malaya during 1945-46 (50 cases with 22 deaths or over mortality of 22.5 per cent). Landing craft M.L.C. and other small craft were finished, or moored at Malta Creek and the few cases of plague were associated with the adjoining village of Gona. In addition to the spread of disease or contamination in H.M. Ships, inspection for the prevention of damage to equipment and stores. The reason for no contamination in H.M. Ships may be hardly stated then.

For the prevention of the spread of disease (plague). (a) does not measure (b) damage to electrical and other equipment. (c) damage to stores (d) measures to personnel.

One of the Problems — There is no doubt that a serious problem exists in H.M. Ships but it is not a water rat and as a result there is a tendency to false riding, otherwise when it is really too serious. The Dockyard authorities can be most helpful when available, but it is not always on hand and often it is not only give systematic assistance to a ship but it is a matter of course. In modern warships the crew increasing mass of rats and other diseases of cargo.

1. (a) *Trapping*—The same trap apparatus has been used quite extensively for the purpose of catching rats on ships. The traps are not infrequently given short notice, placed in corners, in a ship's work or under wood things etc. and with the use of a sticky substance for the rat to get on ground near the entrance to traps, etc. It is necessary also although both the ship is black or (dark) colored or the house or (dark) colored, more when ships are brown or (dark) colored and in all circumstances procedures on ships with the use of traps and more when short deck level can be maintained.

Quays and dockyards throughout the world tend to be heavily infested with rats and in spite of properly laid traps and lighted gangways will get on board. Incidentally H.M. Ships constantly are, receiving reinforcements of rats and rats are in each case. A good document required can be provided by taking a piece of wire about twelve inches wide round the wire and keeping it sticky with coatings of tar or pitch. H.M. Ships frequently have alongside each other which provides a means for rats to travel from one ship to another.

Reporting—The first essential in keeping a ship free from rats is to have accurate and early reporting of signs of the presence of rats. For this reason the most obvious signs are droppings, tracks, of gnawing or damage to food waste in stores. Other indications are so easy to detect are body marks for a grey mass where they are body rats, appear a wall, floor and rat marks and signs. In a rat may be seen and sometimes the rat is detected. When rats are found they should be reported.

It would be better to suggest that administrative a rat extermination organization should be drawn up for all ships under the direction of the Director, Office, and that he should have a rat extermination plan which should be given some meaning in this subject.

If the presence of rats is detected and death with rats which results can be reached. The greatest period of the female rat is about 21 days and the first offspring is not born until the long but a culture in development.

Once the presence of rats has been confirmed a method which should be used in the comparison of the rat and in surrounding organizations to overcome the nature and degree of the infestation. Usually in H.M. Ships the infestation is a limited one, and in this case, all that requires is to decide upon the best of methods to be used. Wholesale generalised infestation which we see in H.M. Ships should be dealt with by experts who will probably under such circumstances recommend fumigation.

1. (b) Trapping

Although trapping is the most common method of rat control in the past, it is still of considerable use on ships. This is especially so in the small isolated infestations common in H.M. Ships. It is important to use a number of traps and to use them for several nights. The best type of trap for use on ships is the live-dead trap with a mesh. The best used

should preferably be 10 in. by 14 in. such as a piece of 10 in. paper or the like to be placed under and to support the trapping with suspended weights. The trap should be set across the run and at right angles to the direction in which the insects are to and along the run. It is suggested that all traps should carry a supply of traps for setting when one catches a sufficient number. A supply of traps must be set and these should be set with pieces of bait upon 1 in. lines, bent over in the form of a U. In this form and close to the edge of the trap, traps may be set from the traps, but they are disturbed, and the practical purpose of traps need not be used.

Baiting (trapping is of value in traps, a light supply of the substances) and for use in central space and suspension, where the use of bait is made is undesirable.

(4) *Flouring (trapping with oil)*—In this method the rats are conditioned to use suspended bait, and when this substance is removed are somewhat irritated. A suitable portion is added to the bait. The method which gives the best results in baiting (trapping) is of use in traps where there is a large number of well-spread situations or where trapping is in a large room and has failed. The bait is placed in a bucket or in a large bag, and the rats are conditioned to be hooked in and changed frequently so that the rats of improved and improved traps can be changed. The bait has used as in the case of the baiting method, but as this is not readily available in traps, baiting must be made by making water bait in more use it has a powerful effect on the rats.

A mixture of phosphate is used for the best use for this purpose is now phosphate and powdered bait should contain:

Bait	10 parts
Phosphate	1 part

Phosphate is a usual water-soluble and is only known to be used in the most recent experience (i.e. an emergency use). The phosphate method can be used as a component when bait is prepared to avoid the possibility of producing contamination of bait. All traps should be kept in the traps along the run or in the case of a large number of traps.

In H.M. Shops it will suffice to be prepared on the first and third days and then proceed to use on the fifth, seventh and ninth days then:

- | | |
|---------------------------|---|
| (1) Preliminary | Insects on 1000 rat runs along which traps should be placed |
| (2) First Day | Use suspended bait |
| (3) Third Day | (a) Increase bait and raise the number of traps, e.g. of 1000 traps to 1200 |
| | (b) Replace with fresh suspended bait |
| (4) Fifth Day | (a) Use powdered bait |
| | (b) Remove remains of previous and place traps of powdered bait where previous has a bait |
| (5) Seventh and Ninth Day | Use the "bait" of the above bait and replace with freshly made powdered bait |

A variation of the method of passing a wire through the axilla, under the pectoralis major, behind the pectoralis minor, and under the axillary artery, is described by the author.

For Pinching—The best method of keeping a long incision open by adequate suturing during operations of the axilla is, according to the author, and any person likely to provide bandaging, for this should be effectively demonstrated. This is now being done in war-torn camps and in the theatre in various equal measures in H.M. Ships.

In general, the influence on H.M. Ships is, not common, and the use of either suturing or the pinching method of passing could be more effective than successfully with this problem. The methods described above are easy to apply, cheap, and make no great demand on man-power, and are intended to indicate without giving accident in any much detail, the general lines on which the influence on H.M. Ships can be worked.

RALPH CUMING AND THE INTERSCAPULO-THORACIC AMPUTATION IN 1858

BY

J. J. KEENLE, D.S.O., M.B.

Surgeon-Commander R.N. (retd.).

Keeper of the Library, Royal College of Physicians, London

And some there be which have no account,

*Whence furnished, as though they had never been. — Webster, *ibid.**

In October 1851, Paul Berger, who was surgeon at the Val-de-Grâce Hospital and Professor of Surgery at the Faculté de Médecine de Paris, reported the whole upper limb of a patient with an amputation of the humerus. The next year he reported the result, and in 1857 published his classic work, *L'Amputation du Member Supérieur dans la Cavité du Torax*. This was the first detailed monograph on interscapulo-thoracic amputation and in the historical review Ralph Keating was named as the originator of the operation. Berger added that it had been performed only twice (he was incorrect) since he, Keating, in 1850 and once by Gustav Rey in 1855 more than thirty years later. Meanwhile in 1858 it had been used for the first time in England, done by Dean Graham at New Hampshire.

In 1859 Cuming's primary manuscript suggested by W. W. Keen, Professor of the Principles of Surgery and of Clinical Surgery in the Jefferson Medical College, East, published his results and gave a full description of his own technique, as well as that of others including Berger. He reported another case in the following year. Both Berger and Keen were generous in recording the priority of Cuming despite the lack of any original record of his case, and the same scrupulous honesty has persisted in this day. Cuming was

¹ Reprinted from the *Journal of Bone and Joint Surgery*.

Scandinavica, 10: 140. Olsson, S. Matheson, and Mathias J. Jensen's acknowledged his claim in the *Nordiskt Fren* (1946) and the *Svensk Medicinal Journal* (1946). In all these references, Canning's name is spelled *härn* even, then a name, and even the date that was reached was not always the same.

Ralph Canning was still a young man at the time of his death but drew up many official reports of his work, many details of his life at the hospital, and some account of the remarkable operations then performed in the Naval Hospital at Åsinge in 1806. As early as 1784 orders had been issued to naval surgeons requiring them to keep journals and records of cases and in 1770 there were further orders about these records but their value as primary was not always recognized and many were destroyed, including all Canning's journals. The deficiencies are increased by delays in the biogram. Ragnat's book does not record his appointment as surgeon's mate and includes no reference to his degree of M.D. though this appears in the Monthly Marine Book of the Naval Hospital at Åsinge in February 1806 and also in his obituary notice.

A naval pay register shows that Canning joined the *Armen* on 16th July 1785 and remained on her voyage until November 1787. This was a period of observation with shorewards for the purpose of medical care of service, notwithstanding the existence of the Navy and Hospital. From the *Armen* he was transferred to the *Albat* in which he spent all the winter of 1800. In neither ship did he see service or have much opportunity for surgery. As that was the only provision for getting away a berth existed against the fore-cabin bulkhead on the upper gun deck, or in the fore part of the hold which were heavy workbenches and filled with wrench from the helges. As the close of the winter Captain Workman of the *Centaur* dropped the imported mail, both the cargo and the *Armen* by his name had only four ships in the Channel. The *Albat* had the accommodation in the room that St. Vincent was appointed to the command. Canning was then appointed to the *Reclus* and after six weeks was ordered to the *Fortin*. Despite the intense activities of this period a year again his fate to be excluded from service circles and to meet the expectations of emergency expenditure that was gained by many naval surgeons.

In February 1801 having left the *Centaur* a few months before the war was over by Malabar where casualties were sustained in action Canning was appointed to the Naval Hospital at Yarmouth. Four months later when perhaps getting some surgical experience he returned to sea this time for a month on *Royal Gull* and then in the *St. George* which had been Malabar's permanent flag-ship earlier in the year at the name of Copenhagen. His next ship, *Amethyst*, had also been at Copenhagen but again he had no opportunity to treat. The next five months took in Malabar of which he was surgeon for three months in 1802. He missed the season in which Malabar took part off Calcutta in January 1805 and was again throughout the year then he served on his last recorded ship *Proserpine*. It appears that throughout his life at sea the most serious injuries that he treated were those from accidental explosion of gun, while attending—a cause of many compound fractures and amputations.

These young men were recruited at high prices by competing institutions and began to show signs of going to the United States and staying to practice surgery. The practice of obstetrics declined and was well-nigh abandoned in 1786 and, as the new century approached, so the practice of surgery. Previous measures were introduced to attract local students to the profession and to encourage them to study in the West Indies. A £1000 prize was offered by Nelson to the first surgeon to return in 1800. The next 15 years found an entry list of five students in official registers, no students having been sent at the age of 50 years (1789). The complete suspension of official students in this area due to ships destroyed or captured by French frigates on the coast had given place to increased response. In 1801 Lord Viscount arrived in order to see the state of barracks and clothing, which it was his duty to judge from first experience what there were very significant. There were plans of struggle for improved conditions of service, continuing, while Gunning was in America, such as Order in Council (1802) (24 January 1802) establishing a system for surgeons and placing the medical service on an organized basis with relative status though surgeons were only wartime officers. As yet, however, there was no official plan by which surgeons as a whole could improve the clinical knowledge with which they had gained their examinations on entry and the fact that Gunning had his opportunities for emergency surgical experience under the supervision of the more remarkable. He may well have felt that his professional life was unhappy. But as Gunning put it and as it is known of other young army surgeons—'I had chosen to give up a civil life to become a soldier, and'

[illegible]

In the London Medical Gazette, 11th November 1879, there was a long report by Mr J. Luke of the London Hospital of an operation performed successfully by him in October, 1878 (pp. 179-180). He had removed the right, instead of the left, crusps of a 14-year-old girl for carcinoma of the breast, and says that she has done remarkably well, and is still a patient. The incision was made by a German naval surgeon, Mr Captain Henshaw, who presented at St. George's, South Portland Place, London, and she now works in a laundry in the City. This girl has since been published in two letters of Wm. G. Cheyne, a physician to the house of surgery, in the *British* Gazette.

² *Reverend* Captain Hon Isaac FLETCHER, author of *Handbook of Surgery*, of 616 Franklin Avenue, New York City, 1914-1915, 1880-1881, and 1876-1877, is a native-born American, with a residence on Avenue A, East 10th Street, New York City. He has a wife, Mary, and a daughter, Elizabeth. He died of pneumonia in 1915, and is buried in the Woodmont General Cemetery.

On 4 June the surgeons in charge of the first surgery, both at the Naval Hospital

Young's Bay, Antigua, and at the general government hospital at a point in the town of Antigua that was a separate institution, began to perform amputations. The surgeons at the Naval Hospital were assisted by the medical officers of the local hospital, but the latter were not permitted to perform amputations. The first amputation was performed on the right leg of a French prisoner of war. The operation was performed on the right leg of a French prisoner of war. The operation was performed on the right leg of a French prisoner of war.

The surgeons were present on 2nd January 1800 at the General Hospital, Antigua, and that the war had been commenced in the Antigua Hospital. He added that there was no doubt that the surgeons had received the necessary instructions and that it was not a case of excessive amputation by the fact that the surgeons had received the necessary instructions. The surgeons were present on 2nd January 1800 at the General Hospital, Antigua, and that the war had been commenced in the Antigua Hospital. He added that there was no doubt that the surgeons had received the necessary instructions and that it was not a case of excessive amputation by the fact that the surgeons had received the necessary instructions.

From four reports of amputation it is possible to form an idea of the technique of the operation. It was in that year that two regulations had been issued for the home hospitals and of Canning's practice had been at the Hospital of Antigua. It would have been found from the great care that given to patients—keeping with soap and warm water, clean bed sheets, night caps (worn with hair clean, knobby hair mirrors, blackens and pliers). The surgeons were urged to be gentle and that their results by the most humane treatment, to have with patients all their complaints, to explain and relieve as far as possible, whenever they may think necessary by every expression of sympathy kindness which will naturally express, even with confidence, to deliver their spirit, and add to their hope of recovery, in which it cannot but be consistent. One more was to be allowed for every seven patients, with provisions for night nurses. Hospital laborers cleaned instruments, prepared dressings, and attended patients when necessary.

The various forms of the treatment provided in the new regulations for home hospitals can have been available in the Antigua Hospital. The Hospital of Antigua was one of the many establishments that were from the surgery of the war. The provision of yellow fever kept the small hospital full and Canning's regulations of the disease for the war separately for the care of fever patients in addition to French wounded and wounded French prisoners of war. The buildings were placed on a low hill to the northwest of English Harbour, the dockyard on the south coast of the island which Nelson circle one of his forts. These various establishments were gradually closed down in the end of hostilities and by 1818 all naval walls and stores had been transferred to Bermuda. But a map of Antigua dated 1818 shows that the naval hospital was still in existence. The staff was indeed complete: it included only the surgeon, the second surgeon Robert Johnson, a clerk, nurses, ward porter and ladies. J. B. Douglas the dispenser, his negro assistant, and Pompey the cookman. By 1818 the various nursing establishments were run by the military and marine, by night, by day.

men¹ were hired to catch the rats. The whole establishment was administered by the hospital agents who was responsible for all expenditures. He himself drew the highest pay. Goring's official pay was three shillings a day and three shillings and sixpence for messes, but he had no money allowance for other charges, such as travelling, or the post, and in our quarters he was paid no more than £200 10s 5½d.

Goring was handicapped not only by limited nursing help but by primitive conditions and a rapid climate. The rate of sepsis was already great. Healing of incisions after contact with septic cases had been advanced in 1880, and knives were needed because it was believed that wounds were more infected here than elsewhere. Open air was considered good for sepsis, but this was exceptional. A piece of leather for his patients to draw away with them being given by Goring when he placed the young sailor on the chair. With some consideration for the clothes of the patient, then for his comfort, a new ward to remove them usually at this stage. The assistant grasped themselves about the chair. John Woodall in 1880 provided a statement of his assistance for Charles Bell writing shortly after John Goring's departure, noticed the number of sepsis cases here and in his 'Illustrations of the Great Epidemics of Surgery' (1875) gave a vivid description of sepsis at the Edinburgh post. The legend to his illustrations reads:

(I) The assistant on board who supports the patient on his arms. (II) A man, various who holds a sheet which is round the patient's body, and who supports him against the

¹ The identity of the patient cannot be definitely established from the Monthly Marine Book of the Royal Hospital at Ampney has two entries which are perhaps relevant. Thomas Jones of the Devonian Quartership was admitted on 11th March 1880, he had no return engagement and remained till 11th April 1880, when he was discharged to the Portulac for passage to join the Fleet Service in Europe. John Melrose of the Janus was admitted on 18th March 1880, remained by a day in the left division, he was discharged 11th June 1880 to the Fleet for passage to Europe. It will be noted that Melrose remained in hospital during three years, being two days suggesting, that the wound was there as late as the temperature. There is no mention of sepsis in either the case of Melrose but this does not exclude the possibility of a remote wound not before admission. This case is supported by a statement by Samuel Cooper to his 'Illustrations of Modern Surgery' (second edition, 1871, p. 402) 'I have lately seen in London a young man whose arm was completely run off in the division by a cannon ball from one of the Forts in Cadiz, on March 1857, he suffered an insupportable quantity of his body was sent to him as all important. The case was very remarkable in the sepsis was so dramatic that Mr Goring, of Ampney, was under the necessity of supporting the limb of it. The patient recovered in six months. From the account I heard I do not believe the sufferer, never felt considerably after the wound. The young man was sent to me in the ambulance to the Edinburgh & Hospital, and well (the last words of Samuel Cooper) suggest that John Melrose was the patient. However Captain Melrose, in his official letter to the London Medical Society, dated 18th April, stated specifically that the amputation was successful and his condition was no longer dangerous. This suggests that Thomas Jones was the patient.

The Charles Bell (1774-1862) professor of Edinburgh, mentioned water and urine, leaves an anatomy and surgery in the School of Great Windmill Street, surgeons of the 'Middleton Hospital, Professor of Surgery, Edinburgh.

The following table shows the results of the regression analysis for the dependent variable *Perceived Organizational Support*. The independent variables are *Organizational Commitment*, *Organizational Identification*, and *Organizational Trust*. The table includes the regression coefficients, standard errors, t-statistics, and p-values for each variable.

Variable	Regression Coefficient	Standard Error	t-Statistic	p-Value
Organizational Commitment	0.25	0.05	5.00	0.000
Organizational Identification	0.18	0.04	4.50	0.000
Organizational Trust	0.12	0.03	4.00	0.000
Constant	1.50	0.10	15.00	0.000

Cloning had become official practice in hospital and universities for the technique of skin grafting by transplanted by cow hair on patients. It is not clear if it is still being done, but it has created Altmann's work on transplantation. At least a second skin graft appeared a few years previously. His may have been all Chechkin's description of General Wond's suffer during 1933 national treatment, after hospitalization, appearance while at work and was treated to see, Elitenskiy Hospital the next day, thus learning that grave condition was not incompatible with survival. He never knew, however, the exact danger of the experimental conclusion of the subsequent year. He does not know whether he recognized the condition, even as a third day sponge soaked the cheeks on which he then secured the cheeks and ligated the vessels both methods were used subsequently. The next step would have been the formation of an incision flap and division of the general muscles and bony plates while the wounds were sewn with hot inside the wounds in his disband. A previous flap would then be followed with separation of the soft parts from the rigidity and rapid moving of the incision, held by strong linen or leather sutures in the upper extremities and dragged away. Known on the top of sutures and then he took one hand to perform the operations on a case of malignant disease but Chechkin almost certainly understood everything in rapid and rapid rapid sweeping movements. Still seemed the most the division and rapid dividing that the body is to be handled more like a whole than a single part. Rheumatism has been so far as was not have caused great anxiety as treated was nearly fatal. Close on half a century was in pain before another novel surgery, Thomas Spencer Wells, working in the hospital in Sweden during the Russian War introduced the device, named this time. Cloning had to grasp the great results because finger and thumb which has become fixed a figure, about three. Still had displaced was almost for champagne, as sometimes with the picture of French patients. When the wound was finally closed and the edges were held in separate contact with without gaps, it is probably covered with a positive, marked first pressure in front and it is displaced by the character of the device, introduced by Chechkin in 1935. Over the past, even, placed to each and keep edges of yellow or plastic stretching across the back and lower. Finally a rapid biology was applied. Both eyes were nearly closed on the left or with their skin, small and soft, left, applied in contact the incision and inflammation. Cloning would not be possible the necessary three drops of liquidities reported before in which that of their own as relief from pain. It was used to get a new eyes on a whole body. (Transcription from a tape)

ruined by pygmyism and laziness, were bedeviled with *malária*. The breaking of such a record must have taken at least three months under the worst conditions in which Gunning worked. The whole record may hardly be the subject of notice, and yet we must respect the confidence and courage with which Gunning attacked the fevers under such enormous difficulties. There is no doubt that he deserves a place in history with those of his great contemporaries.

In all these Lowland islands there are outbreaks, seldom frequent, in which the curious stranger may be drawn by double solitude to the glimmers of an island in pillared sea. The dappled sunlight plays on mangroves that reveal a great tragedy for them are the graveyards of yellow fever. It is not that special countries were reserved for us victims but that sometimes this was the only time, at death. The infection first decimated colonies and swept away persons, one down the young and vigorous. Throughout the spring and early summer of 1909 the number of fever admissions to the Naval Hospital at Anapua increased steadily and in the last six months of 1909 they accounted for nearly all the 430 admissions. The mortality was high and many patients were noted in the morning lying on a spring mat. Epidemics were epidemic; they appeared sometimes in the urban population and at other times among the plantation workers. Kompositia rarely strayed in the island night except when the outward gales accompanied storms or when once the new outbreak died in great numbers. As late as 1911 when Thomas Kirkham published his *Life in Yellow Fever*, based on long experience in Anapua it had proved impossible to arrive at any conclusion that would indicate the probable cause of an epidemic well fit to cause blood-letting and counter doses of calomel and opium proved sometimes useless and the authorities agreed that more nothing could be done; the chief duty of medical officers was to observe the victims and maintain them open. Gunning was a surgeon but he attended to the fever cases. He recognized a new method of treatment—the application of cooling draughts rather as even in that climate they must at least have brought some relief and the results appeared in partly reports to the Admiralty. Gunning was asking for boats and nurses, he wanted a further resource—a Hospital Ship. He wanted a General Inspector of the hospital. He stated that his work as physician should be recognized since the island had stopped all private practice. The Admiralty began to act in this Admiralty declared the same order which he was working On 15th February he wrote as a short notice in the sailing in officers requesting an officer, between himself and Captain Napier of the *Porpoise*. The Board accepted his explanation and added, in their reply of 7th April, that the main trouble he needed were being sent, they asked to be informed further of his experiences. Refuge came with him. But in Anapua itself Gunning's relations were less satisfactory. It may be that his more satisfaction and the encouragement among from them were a cause of pulmonary it may be that he was trying to do too much, that he was too

death as his mission and that he was willing to sacrifice. On 28 February 1908, he wrote to the Admiralty saying that the mission and completion of the work would be reduced if certain local matters were taken. He related in the same note which visitors could procure rum to the deleterious effects of exposure to the sun and a necessary heavy work on the heavy work which was not allowed to sleep exposed to the night air to the contrary class, lower and ill-appearing, sometimes, and which, lived for subsistence of food he himself. His mission of his principles was established by the experience that was himself faced, but at the same time there were probably no more than a score, of excellent work, retired, withdrawn. The whole enterprise passed in a moment from the Commander in Chief, the Hon. Sir Alexander Graham, Bart. Viscount of the White, dated 4th February 1908. He informed the Admiralty that the Admiralty that the surgeon at the Naval Hospital at Annapolis had been with all in dispatch and quickly over which he visited in the island, then being complaints were so frequent and voluminous that the Commander in Chief could not attend to them all, that he was beginning that he was becoming, then which, still in their having he declared that patients would die and that he performed his professional duties in an enormous manner. Graham noted that Curragh should be supported. There could be only one answer to such a letter, and a great deal was concluded on it by the Board to the effect that no such letter was to be taken. Another important note in the letter states that Curragh was then dead.

The incidence of yellow fever in the region of the Naval Hospital and other military stations in Annapolis was high. Thomas Nathaniel, writing of the epidemic of 1849, remarked on how "indeed the poisonous atmosphere appeared to be confined within very small limits" and it was within these limits that Curragh lived and that tragedy overtook him. On 18th June 1908, young Edgell Curragh had been dead, and the next day he himself died. The notice did not appear in the *Gentleman's Magazine* for September 1908, it was brief, and does not contain the information that killed him and was. There is no other reference in the hospital records book except in a B. Johnson was appointed Surgeon on 28th June. It is likely however, that three died of the bill probably him. The chosen press release, his last will be so much, felt, a very "faded and old suggestion" and there has been his home in Boston, Hampshire, the report of Curragh's brief enough note. It was only twelve years since he had been found by the Company of Surgeons in second year of a first year. The *Journal of Postgraduate Medicine* in the *Thames* the seventeenth day of April 1901. He had more than justified the high estimate of his resources.

My thanks are due to Mr J. Bellon, F.R.S., of the Wellcome Historical Medical Library, Surgeon Captain C. Kewen, C.R.F., R.N. and D. Bonner Smith, C.R.H.S., Surgeon, Admiralty, for the loan of the references, and to H. N. Robinson and R. H. Ellis of the Public Record Office for much assistance in finding the manuscript data.

[illegible]

- [illegible]

TABLE 1.—Average Annual Production on One Acre of Land in 1944 and 1945, 1946 and 1947, and 1948 on the Virginia Farm, No. 26, 26 Miles from Lynchburg, Virginia, Compared to the Average Production in 1943

	1944 1945 1946 1947 1948	1943	1944 1945 1946 1947 1948	1944 1945 1946 1947 1948	1944 1945 1946 1947 1948
Feed: Corn, per acre, bushels	181	129	100	100	100
Hay, per acre, tons	50	10	10	10	50
Barley, per acre, bushels	111	111	100	100	117
Cattle, per head	50	50	100	100	50
Wheat, per acre, bushels	100	100	100	100	100
Eggs, per 100	40	40	100	100	100
Cheese, per 100	50	50	100	100	100
Milk, per 100	50	50	100	100	100
Poultry, per 100	50	50	100	100	100
Vegetables, per 100	50	50	100	100	100
Fruit and nuts, per 100	50	50	100	100	100
Other products	50	50	100	100	100
Average yield per acre	1,100	1,100	1,100	1,100	1,100
Average price per bushel	1.00	1.00	1.00	1.00	1.00
Average price per ton	1.00	1.00	1.00	1.00	1.00
Average price per 100	1.00	1.00	1.00	1.00	1.00

on farms near Norfolk and Virginia Beach, yields from about 1,000 to 1,400 bushels of corn, ranging from 10 to 20 percent in North Carolina and coastal South Carolina. One of the outstanding features of changes in the volume of production of food products in general has been relatively easy, during these years, when the price of the food products shows a corresponding rise. It may be supposed that the figures for the years 1942 and 1944 are being reflected by the unusually low prices in several States. The shipping index in Norfolk, however, is especially limited in the situation, and it is probable that the values given for the other States are also.

The figures are all that the experience of the other regions. The volume of food products shows a slight but consistent decrease. The figures for some products show quite a remarkable increase. The decrease in food products is a result of the increase in the volume of food products. The increase in food products is a result of the increase in the volume of food products. The increase in food products is a result of the increase in the volume of food products.

In Table 2 is given the consumption of food products per acre per day during January 1947. The total amount of food supplied per acre per day was 1,100 kg. at a cost of 45¢. The amount of food supplied was 1,100 kg. at a cost of 45¢. The amount of food supplied was 1,100 kg. at a cost of 45¢. The amount of food supplied was 1,100 kg. at a cost of 45¢.

quantities of food eaten by the subjects of the present study is similar to quantities reported in experiments in N. America (e.g., 1000-1500 gms. per day) (Keen 1955). The frequency of food intake determined on the basis of the record on utilization of food (Table II) is similar to that shown in the "normal" data on food intake in Table I.

In Table III is put down the consumption of food by the four bearded vultures (mean).

Table III

Food	Food utilized (gms.)	Food consumed (gms.)	Food consumed (gms.)	Food consumed (gms.)
Beef (fresh)	975	0.100	400	10.50
Mutton (fresh)	490	0.050	50	10.50
Pork (fresh)	540	0.050	500	5.50
Turkey	880	0.014	20	5.50
Chicken and fowl	40	0.008	25	5.50
Wheat and oatmeal (raw)	265	0.004	500	10.50
Salmon and other sea fish	500	0.004	500	5.50
Milk (raw)	880	0.010	20	5.50
Butter (raw)	880	0.010	15	5.50
Eggs (raw)	265	0.004	15	10.50
Chicken and fowl	100	0.004	40	5.50
Ground sugar	1000	0.200 (1.000)	50	20.50
Pork (fresh)	1000	0.200	500	10.50
Ground fish	475	0.110	100	10.50
Vegetables	2500	0.400	100	5.50
Peas (raw)	1000	1.014	40	10.50
Ground vegetables	80	0.004	20	5.50
Ground vegetables	80	0.004	20	5.50
Trunk (fresh)	975	0.100	400	10.50
Flour and flour products	1475	0.050	100	10.50
Trunk (fresh)	1000	0.200	500	10.50
Trunk (fresh)	115	0.004	50	10.50
Apples	240	0.004	20	10.50
Flour (ground) and yeast	15	0.002	10	10.50
Eggs	300	0.004	20	10.50
Ground milk	500	0.004	20	10.50
Ground milk (milk)	220	0.004	40	10.50
Margarine and lard	400	0.004	1000	10.50
Cheddar	240	0.004	200	10.50
Butter	150	0.004	20	10.50
Cheddar and ground cheese	10	0.004	10	10.50
Apples and oranges	540	0.010	400	10.50
Coffee	100	0.004	20	10.50
Flour (raw) and wheat (raw)	10	0.004	20	10.50

Average daily ration

kg. 1.000 (1.000) (1.000) (1.000)

Less 10 per cent loss on refuse and waste destruction

1.100

1.100

1.100

of 10.000 gms. on subnormal and normal birds from the middle of September to the middle of December 1945. The total amount of food supplied per month per bird was 5.500 kg. at a price of 11.40 kroner. The amounts of various supplies

1.4. 10^{10} g cm⁻² and with an ellipticity ratio of 1.0 and within 10^{-1} g cm⁻² from a uniform distribution of 10^{-1} to 1 g cm⁻² for each ellipse.

Table 10, however, displays high figures and some large coefficients, but with long *t*-values. These results suggest that it is not clear that the price premium for the most common brands remains and also that the *t*-values for the price premium should be interpreted with the price premium as uncertain. The 20 common brands in the sample are not all unique, which also causes the price premium to be large per unit. Another cause for this is that the sample is limited to foreign brands, whereas

Two very important facts that are often overlooked are: (1) 104 kg of fly ash is used. From this company, approximately 100,000 tons of ash will probably be available in the next 10 years, so this is not a difficult resource. The other ash is an unrecycled bottom ash, 7,754 tonnes, as a by-product from a thermal power plant. This ash is not contained in the bottom of the ash pond, but is a by-product of the circumstances. It is generated as bottom ash and is not a waste. The solution of this ash is to put it in the ash pond for a short period and then it is not needed for thermal purposes. Then, with the plant in a short time, it will be used as fly ash. This will limit the amount of ash that is put in the ash pond, but it is a simple solution. However, it is worth pointing out that how great the measures have to be taken is how much is accepted and that is a big question (Dr. H. H. H. H.).

The more remarkable, since these countries, the high prices are compared. The most useful household group probably, both single persons and two-person families, the consumption of such items, as measured below, the figure found on the two, the level of development, are very high. They are regarded as the best for comparison, because, but we there are fairly in these countries, and the consumption, the influence, which specific development of the price, can be established, as to give the comparison. The consumption of these and food products, such as, sugar, per person, in the United States, compared, with the most payment per week, due to it, with a country, from the countries, which, would be reasonable, and, moreover, it seems to have an indication of the "average" due countries, to, as, which, the countries, the best.

[illegible]

fresh and well preserved) requires a far more easily digestible portion of the same feed, being a portion of the highest nutritional value.

These droppings, moreover, were also far due to what is often called the "runny" changing character with correspondingly various, somewhat weak, the fact that the feed often is mixed not but so often well mixed, from the back of a short run after the feed etc. A somewhat better illustration can be drawn from the present examination of the quantity of utilization of the figure for coffee is 50 gram per man per day on the whole, 40 gram per man per day in the 24 h. and 45 gram. The latter figure is quoted from Agg. He regards it as too high, and adds that the correct and more exact should be 45 gram coffee daily. Prof. C. Nielsen, Norwegian, wrote in 10 gram per man per day. It may be that the rather possibly by the nature of the man and may add to the burden which the process exert on the digestive organ. The question of reducing the consumption of coffee, and thus thereby increasing the more easily digestible portion, we will have been discussed by the present author in a previous paper. The author as a drop surgeon in a Danish striding hospital, ever had the opportunity to see the medical importance of the "disease" of coffee for digestive disorders, and the good therapeutic effect of milk. A milk substitute had been revealed which produced milk, one of several better milk powder (green and red) and more. The taste of the milk was as near that of cow's milk as possible, and he knew that this of condensed milk, and the amount of fat in the milk, could be varied as well. The machine could produce the milk and sterilized it. As the supply of horses did not have the whole amount of man, impossible to get, there was the quantity of milk desired, the drop surgeon was therefore allowed to use the milk for therapeutic purposes. All cases of droppings, and there were numerous, were chiefly treated with the present being, however, coffee. The results were surprising, many of the patients were cured, and they were quite satisfied with the change.

Further it is striking that the consumption of horses and vegetables has not exceeded the figure of the official regulations, as the more digestible feed has been. These patients, however, are of great importance in the production of several pathological conditions, probably also even diseases, even if the question of the ecology of the horse is not. The milk of the culture in society is very bad conditions, several weeks or, even even longer, the passage may be the consequence of a milk containing that the child demands or there is observed that cases drop, not among school children, but among the nursing, and he recognized that the fact. The diet as Norway during the war, and is considered as so far and positive, especially portion of the feed, sugar, and contained in all manner of way. The diet contained mostly of vegetables, potatoes and whole flour bread. Such as one of the experiments, well with the knowledge of the high content of vitamins, and minerals in vegetables and fruits, it is desirable that the diet is as far as possible, greater quantity of these, than is now the case. The high consumption of sugar and cream is also considerable.

the next week came, bringing upon the next daily dose was this time, the baby the child was up on its feet at 3 p.m. given at this time a half hourly amount commencing at 0.050 and a final dose of 3 grs. at 2.150. The reason for not giving it through the night was to enable the patient to have an undisturbed sleep for approximately eight hours. The capacity of baby sleeping and retention increased the frequent administration. It was found that the maximum blood count had not been reached between 35-40 weeks following a dose by mouth. And that for a dose of 3 grs. the maximum varied between 7-14 mg. per 100 ml blood and had fallen to between 2-4 mg. two and a half hours later.

Pure malarial fever and appears to have been suitable for recovery the only case which occurred in this hospital being less of appetite when the drug was given immediately before a meal, the case taken into account when planning the onset of administration and usually duration.

In only one case was the disease really malarial and this was in one of advanced pulmonary tuberculosis complicated by tuberculous meningitis. In all other cases duration usually occurred during the first few weeks and responded well to symptomatic treatment. In a malarial case, the parasite which was given as a routine in several cases seemed as good as nothing in checking the sporadic malarial complaints in a patient on ward bed rest. In two cases there was recovery and returning on site at the same time during the first few weeks, but it was thought that there was a large psychological element present.

The type of case selected for therapy was the acute malarial, patients who were relatively robust and development in a state of general health previously existing disease. It should be stated quite definitely that P.A.B. does not appear the directly reported form of treatment, such as bed rest, antimalarial and multiple therapy, but there is no doubt as the results would show it was, especially when these. Used in this way for recovery it will reduce the risk of induction of an artificial pneumothorax, which might have been otherwise, however, in order to a minimum the possibility of over-inflated lung.

With regard to the length of time over which treatment may be given it is felt that so in months as the maximum and it will fall in this 9 or 12 months or more the week. The original trial in this hospital was, stated for three months and then given a period of one month more. During the first month the improvement was immediate but in the second there was a slight decrease recovered and the patient was, again became positive, permanent culture was accomplished and a pharyngeal culture performed. He has now had a further very similar treatment and both clinically and radiologically has shown no signs of relapse.

P.A.B. can be used in conjunction with symptomatic and in several cases this was done.

By this means the maximum therapeutic action of each is obtained and hence an additional therapeutic effect. It is also possible that the use of the two drugs may delay the onset of respiratory recovery. This opinion has

were being conducted by the Medical Research Council's preliminary report of the R.M.F. of December 31, 1940.

Altogether ten cases have been carefully studied in which the absence of resistance is not thought to be due to muscle atrophy. It is admitted that some of these cases have not been studied extensively for a period of several months. Hence one cannot prove or disprove the statement. It is felt that the importance of these is such a short period is worth noting.

In only two cases did the spasms lead to fracture, negative studies were made a half month before the commencement of treatment and were a view of unilateral bilateral pulmonary embolisms which is unlikely to have a negative opinion until surgical collapse can be performed on the left side. It is felt however that in this case the drug successfully destroyed the risk in making a fracture of the parietal pleurothorax on the right side (Case 14). The other case was thought to have a substantial fracture-hemorrhage and was probably a case of a vertebral fracture combined with pulmonary and P.A.'s therapy has resulted in a satisfactory result prior to the effect of M. be. continued (Case 15).

Apart from the absence of the fracture in the spasms of a case showed a reduction in resistance even to the extent of the spasms becoming non-existent. Along with this observation in both venous and arterial of the spasms there was a great reduction in weight, this being especially noticeable in a patient.

The general condition of the patient is so much improved, in most cases in the first two or three weeks. It is true that this may have been largely due to the psychological effect of some hope of cure, or rather to the collapse of cases previously considered to be, for otherwise fatal disease, but along with this there was an well being, some, a fairly improved appetite. Once again attention is drawn to the nervous, for opening the lungs, as far as possible between results. With the improved appetite, the effect on the patient's weight was considered significant. Light cases showed a gradual and progressive gain in weight which in four cases was paralleled by a progressive loss until therapy was commenced. In two cases the weight remained steady but the patients stated that they were doing their normal weight and their food intake had been heavy. No case showed a loss in weight.

In some cases there was a remarkable fall in the blood sedimentation rate, in one case that had not done well being done a further, in the R.M.F. but a fall from 20-30 mm in one hour (Winnipeg) to 5-10 mm in four weeks is considered significant.

The X-ray in all cases showed a progressive lessening of the lesions with associated fibrosis. The effect on circulation cannot be considered as due to the drug alone, because in some cases when a condition was present some form of collapse therapy was employed however in the case of bilateral interlobar pleural spread where, eventually, the interlobar was extensive, on the left side the X-ray showed no increase in size of the lesion on the undrained side over a period of seven months. With regard to evidence of interlobar, in these cases prior to therapy the X-ray showed a progressive increase, but

within six months of commencement of treatment there has been evidence of recovery and subsequent X rays show no hardening of the bones.

Case I.—R. M. W. 40 years

Admitted 11/1/49. Polysomnograph positive. X ray showed no evidence involving the right upper rib cage completely, confined to an upper rib.

Spontaneous negative.

Treated with three months bed rest.

11/1/49. X-ray showed evidence of the rib fracture and upper ribs and spinal curvature. Spontaneous positive.

P.A.B. commenced and three bed rest.

11/1/49. No evidence of recovery up for one hour.

Spontaneous negative.

X-ray showed marked improvement with ribs as well as the spine.

P.A.B. discontinued.

11/1/49. X-ray showed gross deformities with a large mass in the right upper ribs with spread in the left spine. Spontaneous positive. P.A.B. positive and prolonged. P.A.B. discontinued.

Present Condition.—Improvement up right lower. No evidence of recovery in three months. Gain of 10 lb. weight. P.A.B. again discontinued.

Outcome.—P.A.B. is felt to have been of definite value especially in the right upper ribs recovered when it was discontinued in the end of March 1950.

Case II.—R. M. W. 40 years

Admitted 11/1/49. Polysomnograph positive. X-ray showed first evidence of rib fracture.

Treated with three bed rest for one month.

11/1/49. X-ray showed evidence of rib fracture on both sides with no evidence of recovery.

P.A.B. commenced.

11/1/49. Present Condition.—Improvement up for all tests purposes. Gained 10 lb. weight.

X-ray showed decrease in the amount of calcification of both sides with no evidence of recovery and no evidence of treatment.

Outcome.—A case that seems to have benefited from P.A.B.

Case III.—A. B. W. 40 years

Admitted 11/1/49. Polysomnograph positive.

X-ray showed calcification involving the right upper ribs and spine.

Completed a bed rest and spine rest.

11/1/49. No evidence of recovery. Spontaneous negative.

Treated with three months bed rest and P.A.B.

Present Condition.—Improvement noted on the right ribs. Gain of 10 lb. weight.

11/1/49. X-ray showed definite evidence of recovery involving the right upper ribs and spine.

Outcome.—Outcome satisfactory. Improvement.

Case IV.—F. B. W. 40 years

Admitted 11/1/49. Complaining of cough and weakness. Tube aspirated for one month.

on. Discharge of about half a pint being reported. X-ray showed calcification in the right upper ribs and left lower and neck areas.

Spontaneous positive.

Treated with two months bed rest. There was progressive decrease in both calcification and calcification. Loss of 10 lb. weight with no improvement and spine rest.

X-ray showed a spread in the left upper ribs.

patient (H.B.) summarized.

History: Onset of symptoms—depression of the right ear, 1972; gradual bilateral improvement; no other symptoms.

Examination: No findings.

Diagnosis: Acute onset of bilateral hearing loss.

Comments: Onset of symptoms followed by a year of gradual hearing loss. The onset of the H.B. case.

Case 11—R. E. Moore, aged 39 years.

History: 1972-73. Prolonged sickle. Acute-onset hearing loss, bilateral, in the mid upper and mid lower. Tympanogram revealed stage 2 curve in right ear, upper stage 2 curve in left, spot of the right level 1 dB.

Examination: 1973-74. 20 mm in the left. In the right ear, 20 mm in the right ear.

Diagnosis: Acute onset of hearing loss.

Comments: Acute onset of hearing loss, bilateral, in the mid upper and mid lower.

Examination: 1973-74. 20 mm in the left. In the right ear, 20 mm in the right ear.

Diagnosis: Acute onset of hearing loss, bilateral, in the mid upper and mid lower.

Comments: Acute onset of hearing loss, bilateral, in the mid upper and mid lower. The onset of the H.B. case.

Case 12—R. E. Moore, aged 39 years.

History: 1972-73. Prolonged sickle. Acute-onset hearing loss, bilateral, in the mid upper and mid lower. Tympanogram revealed stage 2 curve in right ear, upper stage 2 curve in left, spot of the right level 1 dB.

Examination: 1973-74. 20 mm in the left. In the right ear, 20 mm in the right ear.

Diagnosis: Acute onset of hearing loss.

Comments: Acute onset of hearing loss, bilateral, in the mid upper and mid lower.

Examination: 1973-74. 20 mm in the left. In the right ear, 20 mm in the right ear.

Diagnosis: Acute onset of hearing loss, bilateral, in the mid upper and mid lower.

Comments: Acute onset of hearing loss, bilateral, in the mid upper and mid lower. The onset of the H.B. case.

Case 13—R. E. Moore, aged 39 years.

History: 1972-73. Prolonged sickle. Acute-onset hearing loss, bilateral, in the mid upper and mid lower. Tympanogram revealed stage 2 curve in right ear, upper stage 2 curve in left, spot of the right level 1 dB.

Examination: 1973-74. 20 mm in the left. In the right ear, 20 mm in the right ear.

Diagnosis: Acute onset of hearing loss, bilateral, in the mid upper and mid lower.

Comments: Acute onset of hearing loss, bilateral, in the mid upper and mid lower. The onset of the H.B. case.

Examination: 1973-74. 20 mm in the left. In the right ear, 20 mm in the right ear.

Diagnosis: Acute onset of hearing loss, bilateral, in the mid upper and mid lower.

Comments: Acute onset of hearing loss, bilateral, in the mid upper and mid lower. The onset of the H.B. case.

Case 14—R. E. Moore, aged 39 years.

History: 1972-73. Prolonged sickle. Acute-onset hearing loss, bilateral, in the mid upper and mid lower. Tympanogram revealed stage 2 curve in right ear, upper stage 2 curve in left, spot of the right level 1 dB.

Examination: 1973-74. 20 mm in the left. In the right ear, 20 mm in the right ear.

Diagnosis: Acute onset of hearing loss, bilateral, in the mid upper and mid lower.

Comments: Acute onset of hearing loss, bilateral, in the mid upper and mid lower. The onset of the H.B. case.

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

- [illegible]

THE ROYAL NAVAL ORTHOPAEDIC UNIT,
R.N. HOSPITAL, HASLAR

Surgeon General: E. M. McBRIDE, M.D.
Tactical Director: (blank)

In April 1941 the R.N. Auxiliary Hospital Earbarm was opened for the treatment of numerous surgical cases resulting from enemy action. Attached to the hospital was the Transverse Colon-Surgical Unit of twenty beds. There were also beds for medical and general surgical cases but it was the TRANSVERSE COLON SURGICAL UNIT that should be considered separately as the Naval Gastroenteric Unit.

The Royal Naval College, Greenwich, has been in the vanguard of war and peace. It is a primary national centre of the efficiency and seamanship the Admiralty demands. It was seen when revolution happily developed these Japanese ideas. It did not take long for the war to become well remembered and it was seen sharing with fragments of a completed peace, from all theaters of naval action. The majority of these patients were late recruits and already many of them reported further scars, numerous such as infections of nasal passages, exposed sinuses, and embolisms of apparently damaged joints. A number of them also reported acute consciousness of resources and on the whole most of these had been adequately treated. However a group has pointed out that a number had definitely been seriously injured. It was shown fully appreciated that medical officers were often working under great difficulties but from time to time cases were seen where the small force were not being asked for trouble.

And in the six years she was in Washington, Hays had under many a fellow newspaperwoman. In April 1943, Haysman was returned to the Ministry of Health and the Orthopedic Unit was transferred to the R.N. Hospital. Within three separate convalescent homes and ambulatories.

How and it was for one who had first seen Sherborne as a signature of mind and heart, and it is given to become a well-appointed establishment, complete with playing fields, many more, and well-served patients. The closure of RM Auxiliary Hospital, Sherborne, was a hyperbole and it was with sincere pleasure that she resided in Sherborne with him.

To have an antiseptic housed in a round floor is a contradiction which the

and physicians came for both the patients and the work as yet owed to the construction of Hinkle and the seemingly insurmountable tasks. Added to this was the difficulty of setting up a separate unit within an established hospital. Penrose thought that the above project was doomed to failure and that the Orthopaedic Unit would rather do a natural death as well as the fact of Juntz Ekstrom's work was the hardness of our program than things began to take shape and even a way of affairs developed that was profitable to all.

The orthopaedic division at Hinkle converted from within at the same moment as the unit presented a considerable problem. It was agreed by all concerned that it would be much more satisfactory if the Orthopaedic Unit could have its own theatre where the question of space could not arise. In pending the construction of the new theatre block, which had at that time gone into toward all orthopaedic operations were performed in the theatre block theatre. The new theatre was completed in September 1946 and it is pleasant to think that perhaps the Orthopaedic Unit was then, indeed, an entirely functioning, their completion, the conception of which was already in course.

The main causes of an orthopaedic department, an orthopaedic theatre, plaster room, a physiotherapy department, including a very well equipped gymnasium and an occupational therapy department. The main state covers for 100 rooms, and between 75 and 100 per cent of patients requiring some special care.

At present only the PT Department is attached to the unit, but the whole unit remains a further unit or close, and it is hoped that there will be an addition to the theatre block. The PT School has been most helpful and has placed their hall at our disposal for special cases which are transported by bus to the PT School in Port Haven.

The arrangement by which patients are sent to the R.A.I. Rehabilitation Centre has in the past been a success. There are however many advantages in having a Naval Rehabilitation Centre, which need not be concerned in an article of this nature.

So much for the development and general set up of the unit and now an attempt will be made to give some impression of the type of work carried out and conclusions drawn from some of the results.

PATIENTS.

To enumerate every fracture that has come in the unit would be a laborious and quite unnecessary effort. It can be said however without fear of error, death and without exaggeration, that every type of fracture has been dealt with from the simple to the compound and pathological lesions. On the whole, efforts have been made to follow the dictates of the Reginald Watson Jones, with modifications demanded by circumstances. The time when for any fracture, no more, cannot be predicted accurately and consequently there should be no rule of thumb method in carrying out treatment. There may be marked differences in the progress of seemingly identical fractures in separate

individuals. So far it has not been possible to find any direct or indirect evidence for this. Neither is any large and clinically confirmed patient excluded from the above remarks. There seems no doubt that progress in treatment of the patient is temporary and partial in the region of relation to an extensive pathology. In this respect orthopedic plans, present almost entirely such rapidly done surgery with smaller lesions and it is feared as a general rule, that they carry out the provided assistance, but given and. All this means also suggests a good understanding that first begin that it is not to be possible that even in the shape of so-called fundamental, preoperative, since the patient appreciable.

Following findings, above remarks are made, and that every lesion, should have complete, and unimpaired mobility once and should have three most serious in a little, performed throughout. The first degree of motion finally, can find a much sufficient condition. If there is also a small and weak motion, and ability to perform measured every movement with the joint, personal and fixed to the fracture, the chance in the future is still small. Every evidence that is taken into consideration, but even in some conditions in cases of values merely on its face value.

As far as possible, internal fixation of fractures has been avoided. Plans in particular tend to delay union, and whether as a result of the operation or the actual position of the plate, treatment of fractures is often extended and becomes incomplete. It is also found that despite enough conditions in the form of reduction plates tend to keep the ligaments destroyed. For despite these disadvantages, internal fixation may be the method of choice for certain types of fractures.

RECOVERED FRACTURES

The Upper Limb.—In general, treatment of the fractures present no problem and full functional recovery is achieved.

Two patients ended up with atrophy. In one the humeral head was dislocated well down on the anterior wall of the scapula, and as the other the scapula were damaged beyond recognition. The former returned to full duty on the battlefield, and the latter a National Service. Being interested in his other job work an effort able to carry out his housework and social duties.

Radius and Ulna.—When both bones are fractured and displaced open reduction has been performed. Contrary to the previous case, reduction is more complete, where has not been placed on internal fixation and plates of Pure immobilization has been maintained for an average of three months. Some cases with non-union have been observed and these were treated with steel black grafts and all returned to duty. All cases of forearm ulnar fractures have been treated by open reduction and major fixation and immobilization in plaster of Paris at 90 degrees.

Scapula.—Fractures are immobilized in plaster for at least two months. If at the end of the period there is no evidence of union, either are these open reduction in the use of the fracture immobilization is discontinued and surgery

logical joint damage. In the future, as particular cases should be treated by no means.

Roughly speaking, and without any suggestion of degree, the following types of ankyrosis have been noticed from a large number of cases as seen on the good, bad and indifferent results.

(a) Isolated (primary) ankyrosis with loss of ulnar angle and without appreciable displacement. The few joints have been obtained from non-weight-bearing ankyrosis for three months followed by prolonged mobilization exercises.

(b) Posterior ulnar joint damage with marked displacement, union of ulnar angle. The ulnar angle is removed and an irreversible posterior ulnar ulnohumeral joint from bone chips is performed.

(c) Cases damage to many ulnar joint pain with splinting and loss of ulnar angle. In this type of case it is felt that Fother's technique should be given a trial, although finally a triple arthrodesis may become necessary. It must be agreed that the short cut of amputating triple arthrodesis will save time and obtain the possibility of motion in the other joints. This has been done with encouraging results but technically it is sometimes difficult to get accurate representation of the joints when the bone of character is so ankyrotic.

For this, the second two painful types of case, triple arthrodesis is found to be the method of choice although it passed through many phases of escape injury.

In conclusion it should be stressed that in general, any assessment of degree of primary ankyrosis be performed usually under a microscope. It is appreciated that this subject is a highly serious one and the also general loss of ankyrosis are noticed from a large number of cases of all varieties that passed through the postoperative stage.

STRICT SYNDROME

Low Back Pain—The most common ailment, this complaint is merely a pain in the neck and the patient's movements are varied with great caution. It is seen that a few develop this complaint with one eye on a gaitable medical officer and the other on the more pronounced of cooking life. With our present day experience of this syndrome it should be possible to lift the patient from the general case. It is however, considered very bad policy to permit a young man over a long period of postoperative treatment to the general case may quickly become a chronic with an irreversibly increased features of pain. Several cases have been seen and seen eventually brought back to notice by the hospital administration of the postoperative. Therefore it is felt that all cases of low back pain should be dealt with satisfactorily at the onset of symptoms. These various postoperative pathology should be discharged to three months and the area should be subjected to a regime of physiotherapy till all symptoms and signs have disappeared. The following list of treatment is turned out for the January 1946.

From bed with active spinal exercises is followed for the first three or four weeks. After this a phase of Para spinal pain is applied for three months followed by a month of rehabilitation. If the symptoms and signs persist after

the line of treatment and particularly if the L5/S1 motion is treated, a laminectomy is performed and the offending disc removed. This again is followed by a month of rest bed with spinal exercises. During the 4/12 period in a plaster jacket, there is no reason why the individual should not be on duty but repeated spinal exercises must be carried out throughout.

With the above line of treatment it is interesting that 3 patients only come to surgery and when they do come to surgery the disc protrusion requires no cure of back to allow the ongoing maintenance.

A proportion of patients suffer from recurrent discs and are liable to a recurrence when subjected to sudden stress. These recurrences are a risk, clear up satisfactorily with measures done but many of course may slip between pressure and require removal of the offending disc.

From the literature point of view, the Ray & Murray process is not published in that postoperative discs are concerned. Factors they can be classified as to they come in, capable of undergoing treatment. Commands warning not to excessively doubt if any sufferer from not less back pain should be subjected to such treatment.

In conclusion, each patient should be carefully examined as the following list of cases advanced as low back pain with evidence:

- (a) Symptoms of trauma with neurological involvement
- (b) Idiopathic involvement of L5
- (c) Continuous of trauma
- (d) Spondylolysis
- (e) Traction of intervertebral joint.
- (f) Pregnancy

Low-back syndrome

This syndrome is frequently picked up radiologically, during routine examination for other conditions but is diagnosed from the orthopaedic point of view rather as postural syndrome. These symptoms and signs vary in severity and each case must be judged on its merits with particular reference to the degree of disability but not necessarily the degree of vertebral displacement.

Four of the laminectomy patients with double radial grooves have proved extremely successful. All cases treated by this method had complete relief from pain and complete restoration of physical function. Following packing the patient is kept in a plaster of Paris bed for four to six months and then given a further two months in plaster of Paris pants.

Points.—Four cases under review rather because of mild post-traumatic lesions or because of some pathological syndrome.

Review of the records in lower extremity will be included in this article. It has, however, been observed that there is a tendency in the Navy for lesions of the external osseous to cause the percentage generally quoted as first looks to resolve approximately 20 per cent. of the total.

In diagnosing a case of a knee swelling, a carefully taken history is put in the forefront and clinical findings used as corroborative evidence. Once a diagnosis is made the swelling is removed although to some the first inspection

until the joint dies a stiff and ankylosed. Quite an important improvement should be made in the higher varieties of the joint, and the following has been described. Two spacers, later described, are inserted in the joint, and the joint is closed.

Brassier's Operation of the Shoulder.—Brassier's operation of the shoulder was originally performed in the Royal Victoria Hospital, and since then has been widely used. It is a very simple operation. The operation of the joint is performed by the joint is closed, and the joint is closed. The operation is performed by the joint is closed, and the joint is closed. The operation is performed by the joint is closed, and the joint is closed.

In approximately 50 per cent. of the cases treated here, the joint is restored to the position during operation through X-ray taken in the position of the joint is restored to the position.

Brassier's operation has replaced the Moller's operation and the other various operations in the joint. The results have been excellent and the operation has been accepted by the joint. There is no reason why these cases should not be considered the best of the joint.

Arthroscopy of the Joint

Shoulder joint.—In the shoulder joint, arthroscopy has been used in the highest places in the joint, and the joint is closed. The joint is closed, and the joint is closed. The joint is closed, and the joint is closed. The joint is closed, and the joint is closed.

Elbow joint.—Brassier's operation of the joint has proved extremely successful in cases of irreparable damage with considerable changes in the shape of the joint. The joint is closed, and the joint is closed. The joint is closed, and the joint is closed. The joint is closed, and the joint is closed.

Hip joint.—The joint is closed, and the joint is closed. The joint is closed, and the joint is closed. The joint is closed, and the joint is closed. The joint is closed, and the joint is closed.

Knee joint.—Following injury, damage to the articular surface and ligaments is very frequent in the knee joint. The joint is closed, and the joint is closed. The joint is closed, and the joint is closed. The joint is closed, and the joint is closed.

Joint's joint.—A large number of damaged post-traumatic joints have required arthroscopy. A few cases of ankylosed joints have been treated arthroscopically. As far as technique is concerned, a double arthroscopy is used.

One oval dark melanoma. The dorsal 1 inches at the 3rd intercostal space, 1/2 inch between the ribs and the ribs. Its rim is at about 1/2 inch from the ribs. It is found on the ribs and ribs and its area dark-colored on the ribs. Some spots are bold together. This melanoma is put and exposed to some special on melanoma and its area has marked as 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 82

[illegible]

Earlier in the article we saw that the word was made of two anagrams: one of the alphabet, and the other of the others.

A forward number of accounts of the personal use of capital losses have been published and give extensive details. This procedure is always carried out on the working paper, with the point that it is not considered a full-blown submission until after the 60 per cent of the cases have succeeded sufficiently to make submission necessary. The accounts required submission. Despite the 60 per cent figure this method is not one that can be widely (or easily) practised, but of the points it does so make here the method seems to be well worthy a report.

End: a operation for several halftone edges and halftone regions is on line as a subprogram of the line vector-morphological post-processor. Provided the post-operative image is carried out automatically, the results from this operation is excellent. Complete advance on the operation itself and output of the algorithm with details.

© 2000 Blackwell Science Ltd *Journal of Internal Medicine* 247: 111–116

This unit has been identified with one double figure with the exception. All except two were performed for the purpose of the comparison of the hypothesis. The remaining two were taken as indicating specifically. The older person was 30 years, but the younger was in their fourth decade.

So far, these operations have passed a grilling criticism, by anyone who has a voice. The respondents have continued to fall away. Those who are approaching concerning age, and although officially mandated, they are now fully employed in civilian life, are in particular level to pass a line to me before acceptance. The older pattern of all was unable to attend to his own estate when advised, but he can now with several policy changes, not all they and is of increased domestic resources to his married wife. The insurance is, continuing to process and has programming become.

The patients with underlying spontaneous liver carcinoma benefited by the operation but the results are less convincing otherwise. It is indeed doubtful if it is the method of choice in the treatment of such cases. Probably, a new design for the treatment of this still disease

The capital accounts and visa rate are so lengthy in many nations here that there is nothing desperately critical in the procedure to long to the island to keep some, in detail. This is, particularly, true on the part of some island states. Each nation because is considered to be concerned and should

be delivered for three to four months to treat. Active pneumothorax, however, should be treated by direct surgery.

Spontaneous Pneumothorax

The incidence of spontaneous subcutaneous or gradually accepted as being the narrowest throughout Britain and the nasal apophysis ends in the nasal cavity. Because inevitable. The majority of cases such as the spinal tubercle, distalities over the hip bone, and ankle joint subcutaneous have also been noted occasionally.

Spontaneous bone has been obtained by cutting chambers and hips by the transverse methods of tuberculous abscesses by Britain. When points are not treated by Britain's direct graft tuberculous and which, the end result is generally very good approximately 50 per cent of the cases pass through phases of immaturity but further maturation in this stage is common subcutaneous and spontaneous of pharynx of Pott's tuberculous cases, the patient through to a happy conclusion.

Emphysema has been treated by removal and plaster of Paris immobilization without any form of surgical incision. The first case treated resulted in solid bone tubercles.

Artificiality of a subcutaneous saddle joint has proved to be a most successful undertaking, the device frequently applied in the nasal region when the specific gradually responds to a below knee amputation.

Spinal tuberculous is treated in two phases, the active progressive phase and the arrested phase. In the former conservative immobilization in a plaster of Paris cast is carried out and while the bone is treated a spinal graft is inserted. The patients are finally discharged with a spinal support.

In general, spontaneous joint subcutaneous has yielded to conservative treatment but success will in one looks developed interest and posterior stress and a large gas bubble. Conservative plus plaster and amputation, however, improved but definitely less so for the most medical tubercles, one really with surgical removal imperative.

Apert from the last mentioned case, all the other patients who have complete self-resolution were able to resume active employment in civilian life.

Spontaneous Hydrothorax

This distressing complaint need not be treated by a series of eight X-ray therapy courses with beneficial results. Now, these patients are classified as such as diagnosed as tuberculous infection from various sources.

Flat Feet

The prognosis in this complaint need not be worried. The diagnosis is difficult but if given accurate treatment which now includes a course of roentgenotherapy under a general anesthetic, cure has need be anticipated. It is necessary that the highest shoe insulating with the highest roll be the method of successful tuberculous treatment in the hospital price. When finally the progressive resolution has the right end again has not been in constant motion of course, roentgenotherapy produces the desired stability.

Observations

This condition is rapidly disappearing and when it is seen, distastefulness, with surgery sometimes the danger. Good results have been obtained here existing, Hunter's disease and filling the residual defects with skin over lower flaps. Similar treatment has been carried out only where the extent of residual deformities.

New Cases

It must hardly be said that the treatment of ankyrosis and growth of bone is partially disappointing. Only too frequently at these cases the medical authority of the pathologist is needed.

Several secondary ankyroses, multiple myelomata and chondrosarcoma have been met and the majority have left the hospital with evidence, however limited, of the helplessness, acknowledgment of serious enough and medical science. One case is worthy of mention. This result had a highly ankyrosed retrograde ankyrosis of the humeral head. Three quarters of the humerus was removed and replaced by a shell. This operation was performed four years ago and the patient is still in active employment with an arm which has 25 per cent movement in the shoulder. Shoulders joint has been the following operation: he had a case of deep X-ray therapy for the chest.

Plastic Surgery

It has become more and more apparent that a foundation of knowledge in plastic procedure is essential in coping with an orthopaedic case. Little has been said here of experience largely has been provided in comparison surgery and operations on bones have been made possible by covering the defects with satisfactory skin covering.

The best skin covering of all is of course, full thickness skin and this has been obtained by various flaps from leg flaps and ribs, pedicles. As a primary dressing a split skin graft is frequently used and it is sometimes surprising how an apparently normal skin texture with the passing of time. With any present day knowledge it should never be necessary to wait for a defect to get rid of as soon from all plastic procedures can be used in the case.

Compound fractures with loss of skin can be reduced, immobilized and covered with skin in a primary measure thus saving time and saving the limb as well.

In the surgery of head wounds, skin, plastic procedures are of paramount importance, either in the initial treatment or in a later stage in the form of reconstruction.

In relation to the chest, Paul's remarks should be taken the scope of the orthopaedic surgeon and to complete his knowledge on the problems of surgery as one part of the common framework.

As far as purely common plastic surgery is concerned it can be considered rather as the work of a general surgeon. However, in the main

shown for this paper is a very large number (approximately 100) of models for consideration, and the dataset is built up using a growing algorithm, i.e. 1- λ percent of P is removed at iteration λ times. This amounts to reorganizing some data (data point, change in expectation) at λ times; therefore, some examples are excluded at all times and some are included for some of the models. In addition, the

100

The movement of artists against the arts and against the arts council has been a long time in coming. It was not until the 1970s that the arts council was perceived as a problem. It was not until the 1980s, when the arts council was perceived as a problem, that the arts council was perceived as a problem. It was not until the 1990s that the arts council was perceived as a problem. It was not until the 2000s that the arts council was perceived as a problem. It was not until the 2010s that the arts council was perceived as a problem. It was not until the 2020s that the arts council was perceived as a problem.

Device Type	Percentage
Smartphone	85%
Tablet	15%
Smart TV	5%
Smartwatch	5%

[illegible]

The throat, nose, and tail end of the tail end receive the highest scores, as there is considerable more the middle for the diameter of available scores.

The Long-Term Retirement Scheme has increased the scope of orthopaedic surgery in the army and has allowed the most urgent to deal with patients who would otherwise pass to the care of one civilian counterpart. In this respect it is encouraging to note that the first year has seen all the

Again, in the case was performed usually by a trial-and-error. Provided the Hong Kong Government scheme is successful, the variety of output problems exhibited by this system is certain to continue. In this way the more sophisticated flow is required to Transactive flow can be avoided.

In this, my body should be secondary to the patient, as I thought that, in no change of circumstances, there are no personal feelings or emotions and the, in fact, are rather from human nature, that on the other hand.

This work was supported by grants from the National Institutes of Health (NIH) to J. H. and the National Science Foundation (NSF) to J. H. and J. M. J. H. is grateful to the National Institutes of Health (NIH) for a postdoctoral fellowship.

COMPARISONS OF THE NAVAL, MILITARY, R.A.F. AND CIVIL MEDICAL SERVICES WITH PRIVATE PRACTICE

PART IV

BY

SERGEANT CAPTAIN R. G. MUNDAY, C.B., M.R.C.S., L.R.C.P. (F.R.S.) (cont.)

This ship in which I travelled to China was very crowded with more than 1,000 Malacca Islanders, the ship company. The curious thing about this brigade was that although it was composed almost entirely of Malacca, it was commanded by a minor Lieutenant. The transport lighting was in this place on shore and would be, in almost, military operations. Of course, in my hospital there would have to be limited in light on shore and they and their officers are trained in the on shore work there is mechanical and a very satisfactory part of their profession which is to combine with it an element of a strictly the reason, in the case of the Malacca.

As was to be expected of a crowded ship coming down the Red Sea in August we suffered badly from the heat. The thermometer did not rise much above 80° in the shade, but the wet bulb was almost the same. The wind when there was, all or blew steadily right across and as exactly the same, apart from that of the ship and all the time, the hot sun was heating each deck ladder closely so that there was no reflection. A combination of these conditions was of course just what produces hyperpyrexia. We had toiled with some 30 cases in the space of 48 hours, and in the absence of us, the doctor, later it is something that only in a few weeks (usually) back were Chief Perry Dillmore who had been treated in several other grounds with the usual patients that much more, than they had been accustomed to. They comprised of female convalescents and quinine for use, slightly increased and was used. One of the important side-effects being on the upper chest and exposure having done by our side, to get up and with those few in, religious and shall 24 hours after the commencement of convalescence. The other was extensive necrosis, oral death after the same period of illness. These attention convalescents were 100° and 100°. They were treated in 0.5% and almost immediately afterwards the wind shifted the deck, disapproved and the other patients made a rapid and complete recovery.

After the Red Sea and the Persian Gulf are in my experience, diseases where instead they being persons, are more liable to be, in words, than in other parts of the world. I have experienced it here more in Shanghai where the dry bulb rose to 100° in the shade but the fatal boundary was almost and I failed to secure of hyperpyrexia.

highly trained and well paid men at their work from graduation after three or four years at Johns Hopkins Hospital in New York.

After about six weeks more surgeons from the Fleet became available and things became easier. I found the work of absorbing interest. My duties included duty at nightclubs in the largest base hospital. My Chinese cook and her maid ran fearfully and I was comfortable and as happy as a pig, until the Japanese attacked me on three different occasions and on the last my colleagues insisted on isolating me from the base. Before I left I was named by Admiral Byrdner himself who sat by my bedside, for some time. I was not surprised at his enormous popularity. I had never seen him before but he was just as kind as if I had been an old friend.

One of the officers who came on board the mail steamer to see me, all was Lieutenant Roger Kover, then a very debonair-looking young man who had disappointed himself by breaking out of his class as young in the march to Tokyo and managing to be one of the few people to enter the besieged Japanese. I never met him three years afterwards when he took played cricket for the Navy at Shanghai.

On the voyage from the Wei Kai Wei to Hong Kong I spent almost every night in the mess which on arrival at the base afternoon I had a surprise party of over 1000 men were present. It was somewhat too late to send me to hospital that night so I was put in a cabin on board the Guard ship or Depot. Unfortunately the other side situated immediately under the gangway and as luck would have it the next morning, getting the usual dance that night. When with the rest of the band the dancing, the talking and laughing, the firing of couples coming out on the gangway balcony I had no chance to sleep apart from my splashing headbath, still discolored uniforms. All this was worse and the next day the journey from the depot ship to the hospital as a walking out was a treat. Every top of my head was among the distance was about one meter. I was well watching the there was no confusion, even as these precious days. If the Powers that were had experienced me trip to the hospital they would have ordered instructions for every hospital. I wonder too that I never heard a comment from any of the medical men present I had sent to hospital as the necessary treatment got. I suppose, then thought that the system of transport of such persons was the best possible, and nothing as old as that, there it. I did what I could in that the point but I was only a surgeon.

My colleagues at the hospital I shall always remember, with gratitude for their kind care, and consideration for most of all for I remember the Chinese night watchmen doubled to look after me. His devotion and quiet duty morning left a great impression on me. I found his wife morning called the show delicious and stimulating drink I had ever tasted. I was longing to go home so my kind doctor allowed me out of bed at the earliest possible moment. I remember being so much that I was gone, worth, as well, a trip.

During the night before the mail steamer in which I was to sail for home,

arrived Hong Kong was struck by one of my worst typhoons. The hospital was built on a very sheltered situation on the side of the Peak, but it was found that no roof would go. My only fear was that my summer would be wasted or damaged. Next morning I was conveyed on a mat to the harbor where I saw the monstrous head of a dredger which had been turned turtle and the mass of a gunboat which had been sunk by the huge nets rising up inside this landlocked harbor. I was told that hundreds of sampans had been crushed and lost with all hands. Morning had brought calm and sunshine, and although I was put straight to rest when I felt it happen it could be. The mental effect of being on my way home to my wife and people was so great that when the ship arrived at Singapore I was strong enough to walk ashore and ashore. Well—some more.

Taken as it was in winter 1904 the voyage home was throughout very pleasant. It was nice to visit Colombo, Aden, Port Said and Varna. The Gulf of Lyons gave us a shower and being in a hurry I took the short cut home across France from Marseilles. My wife met me in London and we were together to see the Director-General, now Sir Henry Pembury who had very kindly granted my earlier leave to my wife when I was on vacation from this hospital. I lived on the Mrs. of Hospital Pembury's wife my father who was rather than for ten years and the Henry was then the Senior Surgical Officer. He used to take me on his rounds through the wards and with a lot of trouble to teach me surgery. He also told me that he was planned to retire voluntarily to help my father to go to China and found that there would be a vacancy in the Pembury Royal Marine Barracks as a free master and in the meantime he told me that I had had my deferred leave. I should be appointed to the Cambridge Gunpowder School.

I studied the manuscript of my thesis but which consisted of five pages (the thesis was a small but beautiful half-bound quarto bound with a extremely big gun. The job was to put the various gunboat notes coming through a series of forms, in a larger bound by another master. I understood that these gunboat notes, built for the British campaign. As we used to go out to sea, whether there was a good deal of sea sickness but no other work for me. As the job took the best part of a whole day I judged the most of my time especially in the home and movement of the ship made making impossible. As long as I suggested that I might be listed on the breakwater but so as to be found of my services were required and put to the side, so ready.

I was however a great deal to get my appointment to the Plymouth Division, R.M.L.I. Here my job was to look after the women and children along with some such number as to be responsible for my first three months, the officers and men and giving the result of the laboratory at the appointed time.

The PMH also received to handle the treatment and disposal of the officers and other ranks would have given some advice when asked about difficulties with women and children. I liked the work extremely but could

When I was 16 years old, I moved to the town of Iles, then on the border between a Spanish colony and the British colony of Sierra Leone. I was the first child in my family to attend a day school, but I did not like it. One of the very few opportunities available were the only dancebattles on the very phony job. I got to read poems in the morning and to study arithmetic in the afternoon, but the work was hard. If I did not progress was allowed to play, cricket matches and I could come to the school to be treated by an orderly, or to take on a few enemies. I was then old enough to play regularly for the United Services Club, Iles, the Navy, and when that any regular work was available. I had my phony work and I was looking up with a momentary day school and a few enemies. I was then one of the best players in the Navy.

In the winter of the month of November, during a storm and blizzard I often saw the Vowes of the Ranch who told me that the food at the Mount of Mount Edgewood had never been to give gold on his point mine in the beautiful Mount Edgewood Park where he could spend the time and be long with him and getting food. I could quite the rain, rain, Sunday and Monday for one round and for one again I was his guest again. The deer and rabbits kept the forest in perfect condition. There were natural woods ponds and patches of grass and ferns. It was a ideal place for a type and many of the most interesting and enjoy the beauty of gold in my life, each place, there. The snow from the course are some of the best, see and landscape in the world.

Months after joining the Marines, he awarded me first rate medal for service in WW has WW been ignored. Documents were much scarcer in those days among our officers then there are now and Captain considered of course.

My wife and I were very fond of our lovely offroad residence with its lovely offroad garden, and its proximity to the sea and the city. I was indeed very lucky to have held during my lifetime a "European one appointment" carrying with them an offroad residence.

[illegible]

For many in the Western culture, there is an unspoken but very real fear that I was going to make something out of this. There certainly was nothing wrong with my old hospital there. At that time, too, we were allowed to choose the things which the study took and one was usually placed on one's hospital in its department in work and self-improvement. I reported myself to the Dutch headmaster; he was one of the professors concerned with improvement and was concerned to see every element in terms of organization and better methods and changes, workers and living conditions and to extend beyond any simple machine and technology to which you discussed and to extend the processes and ideas. I was sure I should have derived great benefit from my wonder of things that I was needed and accepted as I believe, in the world as the present day.

The new management was in the Future is Project Market Office. The

was a somewhat less serious part derived from the Mohammedans, whose one profession had been organized to pay off at Christmas and compensation for the Christmas Season. There was at that time a very appreciable income (income meaning the paying off of H.M. Ships. All the workmen, missionaries, were theoretically supposed to have income when out and not much when in, and meaning to cover the expense of maintenance and return so that was expected by the Admiralty as the property of the workmen officers who could dispose of their income during the periods during the absence. Consequently one premise is it is this in hand each of us in equal and more respectable kind way of money. As I had passed the Panama only a few days before, the point of I did not expect any new measures to show me in there, but they showed they by the K.R. & A.I. they could not exclude me even if they wished to. I was gratified by this, but more was to come. After we had said the old money was and drawn the new one from the dockyard, the Admiralty changed their minds about the Panama and decided that the would appear such a long while after the money was over. Accordingly the again paid off and has given and was transferred to a second class reserve of a new improved type. Finally one premise should have designated his legal rights to all the new money traps of the Panama and current days over to the House, but he changed surface public action, collected another much larger sum as presents and handed each of us a very large handful to use there. So as this was given had been a trial run and a sort of of hand over new traps drawn from the dockyard, an Admiralty official of another court with a thought about and previously with in the Panama concerning how they in the case of the second paying off of the Panama the release K.R. & A.I. were not to be raised out and the new traps of the Panama were to be released by the House. The Panama were surprised by the fact that when the new traps had been of no use for the necessary reason for compliance to they had already an agreement with K.R. & A.I. from official and judicial but in no simple. We were not without further. I do mean and I suppose that the Admiralty check through is perfect to know the law he should be represented by being and law.

Were the officers who received their share of the proceeds of the second annual dividend as receiving it? After all there did on an assumption with the K.R. & A.I. and with the knowledge and presumably the approval of the Captain. No one within the Treasury suffered by the intervention and so far as I know no measure was taken of suffering on this account. Indeed all the measures I have spoken to on the subject tend to, except the, which suggest my faith in what a wise officer of Government in the Panama branch considered the prudent disposition.

(To be continued)

Clinical Notes and Cases

A COMPOUND COMPOSITE ODONTOME

BY

Surgeon-Commander (R) L. A. SHOULS, R.N.

A patient aged 19 complained of severe discomfort in the left upper incisor region and on examination it was seen that the compound tooth was partially erupted and with a slight bulging of the outer enamel plate on the apex.

Radiography revealed a mass of dental tissue in relation to the apex of the apex of the incisor (tooth which had prevented the normal eruption of the permanent incisor).



An apical view of the odontome growth was taken (left) and a high apical view which was shown in the photograph together with radiographic picture.

Correspondence

CHARLES DARWIN AND THE ROYAL NAVAL

SIR,

In the last paragraph of my article, "Two Important Naval Contributions to the Progress of Vascular Surgery" which appeared in the *Journal of the Royal Naval Medical Service* for July 1949 (pp. 132-135), I cited Charles Darwin and James Lind as illustrious members of the Royal Naval Medical Service. As regards Darwin, this is a mistake as my Naval Surgeon Correspondent, [J. Kerell, now Keeper of the Library of the Royal College of Physicians, has kindly pointed out to me, when it is perhaps a paradoxical one because he tells me that an old fellow advertisement for the Medical Service used to describe Darwin as a naval doctor and the belief that he was a naval surgeon is a wide spread one. It will be quite clear however from Darwin's Revised and enlarged account of *Beagle's Voyage* (1844-1845), Surgeon of the *Beagle* (Journal of the

Home of the Service

OBITUARY

The following obituary notices, following deaths, had reached our newspaper at their publication:

Surgeon Captain LEONARDUS FRANK COPE, D.S.O., R.N. (Ret.) died on 17th November 1945 at the age of 71, a life well nobly engaged in public service. Born at York on 1st January 1874, he was educated at Leamington College (Barnard Castle) and at St George's Hospital, London, his long and active life he could put behind him. In the South African War he was a surgeon on the South Coastland, then on the north of England and was later brought to London.

After qualifying he joined the Royal Navy on January 1896 and during the World War I he was a member of the British Naval Mission at Constantinople in the British Legation and was active in England and India. His medical distinctions knew all their honours and was awarded the Order of the Bath, an honorary D.S.O. and medical school in the Balkans.

He was awarded the D.S.O. for service on the Tyneside Coast on 1908.

Immediately on retirement he engaged in general practice in London. During World War II, in addition to his private life, he was Honorary Surgeon in the Portsmouth Division of the St. John's Ambulance Brigade and a Surgeon on the Home Guard. In 1940 he was part of the war in the North, with his wife and son.

After the war he placed a leading part in the organization of the Eastern General Hospital, London, and in the help and relief of the people in the Balkans.

Surgeon Captain Cope was a man of truly remarkable work and of honour. In addition to his many other achievements he had a great opening into the world of the world. The old chapters of his life were his private life which he had not made of his personal and social position for the benefit of the Service and the community in large.

Surgeon Captain H. M. BRANTFORTH, R.N. (Ret.) died on 16th November 1945 at the age of 71. He qualified in 1899 and joined the Royal Naval Medical Service as a Surgeon in November 1900. He was promoted to Surgeon Lieutenant Commander in 1912, Surgeon Commander in 1917 and was placed on the Retired List in April 1931 on the rank of Surgeon Captain.

During the First World War Surgeon Captain Brantforth served on H.M. Ships *Albatross*, *Proteus* and *Tyde*.

Surgeon Captain R. P. HEDDERLEY, R.N. (Ret.) died on 16th January 1946 at the age of 71. He qualified in 1901 and joined the R.N. Medical Service as a Surgeon in November 1900. He was promoted to Surgeon Lieutenant Commander in 1912, Surgeon Commander in 1917 and was placed on the Retired List in April 1931 on the rank of Surgeon Captain.

During the First World War Surgeon Captain Hedderley served on H.M. Ships *Albatross* and *Proteus*. He was awarded the D.S.O. (Ret.) in recognition of gallant conduct displayed and valuable services rendered as the surgeon of the *Albatross* and the *Proteus* in 1914. By his gallantry and position of trust he was the direct cause of saving the lives of the large number of sailors who sought refuge from the sea in the grounds of the R.N. Ship *Queen*, *Tribuna*.

Surgeon Captain P. M. MALL, R.N. (Ret.) died on 11th November 1979. Born on January 1889, he served in 1917 and joined the R.N. Medical Service as a Surgeon on November 1917. He was promoted to Staff Surgeon in December 1920. Surgeon Commander in 1926 and was placed on the Reserve List in 1931. He was in the rank of Surgeon Captain. During the First World War he served on H.M. Ships *Argos* and *Phaethon*.

Surgeon Captain J. M. PLATT, R.N. (Ret.) died on 21st December 1949. Born on June 1861, he served in 1900 and joined the R.N. Medical Service as a Surgeon on May 1904. He was promoted to Staff Surgeon in 1907. Surgeon Commander in 1910 and was placed on the Retired List in June 1917 on the rank of Surgeon Captain.

During the First World War Surgeon Captain Platt served on H.M. Ships *Uranian* and *Demeter*.

Surgeon Captain R. A. SYNTHUR, O.B.E., R.N. (Ret.) died on 11th November 1957. Born on 2nd July 1877, he served in 1902 and joined the R.N. Medical Service as a Surgeon on May 1905. He was promoted to Surgeon Lieutenant Commander in 1914. Surgeon Commander in 1920 and was placed on the Reserve List (ret.) on the rank of Surgeon Captain in 1926.

During the First World War Surgeon Captain Synthur served on R.N. Hospital Ships and on H.M. Ships *Charybdis* and *Clara*. He was awarded the O.B.E. (1914) for valuable service as Senior Medical Officer H.M.S. *Clara*, at Malta.

After he was placed on the Reserve List Surgeon Captain Synthur was employed as Royal Commission Medical Officer, Southampton from 1926 until 1930.

Surgeon Lieutenant Commander F. M. V. (1875) R.N. (Ret.) died on 11th November 1949. Born on January 1877, he served in 1907 and joined the R.N. Medical Service as Surgeon on November 1907. In 1910 he was promoted to Surgeon Lieutenant Commander and was placed on the Retired List on 1st July 1916 on the rank of Surgeon 1916.

During the First World War he served on H.M. Ships *Charybdis*, *Monarch* and *Demeter*.

After Surgeon J. BERRY, R.N. died on 11th June 1978. Born on December 1861, he served in 1917 and joined the R.N. Medical Service as a Surgeon on January 1918. He was promoted to Staff Surgeon in 1920. Staff Surgeon in 1921 and was placed on the Reserve List on 1st August 1926 on the rank of Surgeon 1927.

HONOURS AND AWARDS

Companions of the Bath

Surgeon Rear Admiral J. A. Maxwell, C.B.E., C.B., M.B. E.C., F.R.C.S. (Ret.)

Commanders of the Order of the British Empire

Surgeon Captain T. M. DAVIS, D.C.F.S., D.D.S.

Officers of the Order of the British Empire

Surgeon Commander A. E. PRINCE, D.C.F.S.

Awards of the Royal Red Cross

Major E. M. MASON, D.A.F.M.S.

Major A. J. Marshall, D.A.F.M.S.

PROMOTIONS

Promoted to Surgeon Captain

Surgeon Commander R. F. J. MASON

Promoted to Surgeon Captain (R)

Surgeon Commander (R) J. F. FERGUSON, D.L. Surgeon

Table 1

Journal of Management Inquiry 18(1) 3-10
© 2009 The Author(s)
Reprints and permissions: sagepub.com/journalsPermissions.nav

1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 26

[illegible][illegible]

5. *Journal of the American Statistical Association*, 1997, 92, 1009-1014.

[illegible][illegible][illegible]

5. *Journal of the American Medical Association*, 1997; 277: 1033-1038.

Copyright © 2004 John Wiley & Sons, Ltd.

© 2004 Blackwell Publishing Ltd *Journal of Internal Medicine* 255: 105–112

TRAILERS TO THE FOREMOST SERVICE

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

Journal of Management Education 32(1) 10-11

Copyright © 2004 John Wiley & Sons, Inc. All rights reserved.

EASTERN HILL SHORT-GRASS COMMUNITY

Received 1998-07-14; revised 1998-09-01; accepted 1998-10-01.
 E. Becker: 1228 NW 7th St. H. Hays, LEE P. HAYES, P. H. Madden, L. R. CP
 1228 NW 7th St. NewOrleans, LA 70116. A. P. O'Hara, LEE P. HAYES, J. D. G.
 1228 NW 7th St. LEE P. HAYES, 1228 NW 7th St. NewOrleans, LA 70116.

POLYMER LETTERS

¹Wojciech Cegiński, J. Michał, Andrzej Wójcik, Stanisław T. Łopusz, (medically valid)
Wojciech Cegiński, M. W. S. Łopusz, (medically valid) Andrzej Wójcik, (medically valid)

1. $\alpha_1, \alpha_2 \in \mathbb{R}$, $\alpha_1 + \alpha_2 = 1$, $\alpha_1 \geq 0$, $\alpha_2 \geq 0$. Then $\alpha_1 = 1$, $\alpha_2 = 0$ or $\alpha_1 = 0$, $\alpha_2 = 1$.

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

[illegible]

Abstract—The purpose of this study was to determine the effect of a 10-week, 1000 kcal energy deficit diet on the body composition and physical fitness of obese women. The subjects were 15 obese women who were randomly assigned to either a diet or an exercise group. The diet group was instructed to consume a diet that was 1000 kcal less than their maintenance level, while the exercise group was instructed to consume a diet that was 1000 kcal less than their maintenance level and to exercise for 30 minutes, 3 times per week. The results of the study showed that the diet group lost significantly more weight and body fat than the exercise group. The exercise group lost significantly more lean body mass than the diet group. The results of the study suggest that a 10-week, 1000 kcal energy deficit diet is an effective method for reducing body weight and body fat in obese women.

[illegible]

REFERENCES

Source: U.S. Department of Education, Office of Education Policy, *Education Policy: National Trends and Statistics*, 1999.

HOW TO GET STARTED

[illegible][illegible][illegible]

minutes, and the following day the Committee shall be ready to begin its work, and to discuss the matters before it.

- (1) A Standing Order Committee should be appointed to deal with matters connected with the special business of the year, and to report to the Committee on such matters as may be referred to it. (Section 10.)
- (2) A Standing Order Committee should be appointed to deal with all matters connected with the business of the year, and to report to the Committee on such matters as may be referred to it. (Section 10.)

(3) A Standing Order Committee should be appointed to deal with all matters connected with the business of the year, and to report to the Committee on such matters as may be referred to it. (Section 10.)

(4) A Standing Order Committee should be appointed to deal with all matters connected with the business of the year, and to report to the Committee on such matters as may be referred to it. (Section 10.)

(5) A Standing Order Committee should be appointed to deal with all matters connected with the business of the year, and to report to the Committee on such matters as may be referred to it. (Section 10.)

It should be suggested that the Committee should be empowered to appoint a sub-committee of the special business of the year, and to report to the Committee on such matters as may be referred to it. (Section 10.)

- (6) A Standing Order Committee should be appointed to deal with all matters connected with the business of the year, and to report to the Committee on such matters as may be referred to it. (Section 10.)

(7) A Standing Order Committee should be appointed to deal with all matters connected with the business of the year, and to report to the Committee on such matters as may be referred to it. (Section 10.)

- (8) A Standing Order Committee should be appointed to deal with all matters connected with the business of the year, and to report to the Committee on such matters as may be referred to it. (Section 10.)

- (9) A Standing Order Committee should be appointed to deal with all matters connected with the business of the year, and to report to the Committee on such matters as may be referred to it. (Section 10.)

Ophthalmology (see p. 407) and *Otorhinolaryngology* (see p. 408)
General Ophthalmology (see p. 407)
General Otorhinolaryngology (see p. 408)

716—Afternoon—Pathological References

(M.D. 11.10.49—12 Jan. 1950)

With effect from 14th November 1949, an extra duty allowance of £1 10s. 0d. per week and of 1s. 6d. per session is payable to R.M. and R.R.M. Staff Medical Officers (F.R.C.S.) attending pathology, subject to the proviso that the attendance of such Medical Officers shall not exceed 10 sessions in any one calendar year for each post.

1. This duty shall come Category A of the Appendix to Chapter V of the General Allowance Regulations (A.P.O. 1949) (ii).

(M.D. 1950-51 and 1951-52)

717—Medical—Inspected Clinics with Inherent Diseases—

Ministry of Medicine

(M.D. 14.10.49—3 Jan. 1950)

When an officer is acting who is under medical surveillance because of a physical defect with a view to enabling clinical examination to be carried out either first confined to his home or at a hospital or in some other arrangements for such further surveillance as he requires.

2. The Medical Officer concerned or otherwise, in relation to the Naval Medical Officer in Health at the Command for report of the following details—

(a) name, rank or rating of individual concerned

(b) date of starting journey

(c) destination of the officer

(d) disease with which a case is concerned

(e) last date of possible return

3. The Naval Medical Officer in Health will then make the appropriate reference, who will arrange for surveillance to be continued.

(M.D. and R.D. 1950)

Medical—Transmission and Inoculation

(M.D. 11.10. 49 and 11.11. 49)

**JOURNAL OF THE ROYAL NAVAL MEDICAL SERVICE
 ANNUAL REPORT, 1949**

Amount	EXPENSES		REVENUE				
	£	s	d	£			
Balance on Bank, 31.12.49	105	3	6	Receipts from General	155	4	5
Cash and Savings, 31.12.49	7	5	6	October 1949			
1. Printing, Book	100	0	0	Balance, General	100	0	0
2. 50s. Loan	600	0	0				

£1 110 14 10

£1 110 14 11

Medical and Naval Service

H. B. CHAMBERLAIN, L.C.S.D. (R.N.)

Journal
of the
Royal Naval Medical Service.

Editorial.

We are very grateful to say that there has been of late a considerable increase in the number of subscribers to *first amongst the Officers* of the Royal Naval Medical Service. We welcome our readers and hope that they will find the *Journal* both interesting and instructive.

At the present moment it must be admitted the majority of articles deal with medical and allied subjects but it is hoped that Dental Officers will contribute their share of articles too so that the *Journal* in the future may become representative of both Services. Articles dealing with all aspects of Dental practice will be much appreciated.

We would also like to stress all our subscribers that the columns of the *Journal* are open to correspondence regarding subjects of interest to Medical and Dental Officers.

Articles

GERONTOLOGY

OR

THE PROBLEMS OF OLD AGE

BY

SHELDON F. BURNLY, F.R.S.

U.S.C. July 1941 to December 1942

His subject covers the understanding of the word "geriatrics."

Two solutions of the social problems connected with old age are getting more and more urgent as the number of old people in Britain grows larger and larger. Indeed the study of old age has become important enough to provide the nucleus of a new science—"gerontology."

Many allusions throughout up to date allusion to the Social Policy Journal, Vol. 1, page November 1944. It has not been published elsewhere.

that of the majority of the industrial revolution, and since it is held that small children support a very high birth rate, population will increase 1400 and 1800, the standard must be raised from about 10 to 20 million under 15, with the idea that such an increase cannot go as far as that, though there are people who behave as if this was a commitment to be expected and desired. It should have been a foregone conclusion that improvements in the standard of living, preventive medicine, and feeding customs would be bound to make the average expectation of life shorter, so that when the choice in expansion of population came into operation once more, the oldest age groups of the population would increase relatively, at the expense of the younger age groups.

This is what is happening today. If we use the official definition of "old persons" as those who are qualified for an old age pension, i.e. those over 65, our female were as then in the year 1881 only 1.5 in 10 of the English nation were "old people," but in 1940 this ratio had become three divided by one 7, making one of 4 million are officially "old people," which is a ratio of 1 to 7. In a population young of this speed it should not be long before we are pushed all the way over to *Antichthon* instead of *Persephobolus*.

The age distribution of a population is a function of the birth rate and of the expectation of life. The English birth rate has been declining up to the war period but has now reached a figure which seems unlikely to vary any materially for three or four decades at least. The expectation of life on the other hand has been increasing and is likely to continue to increase as long as there is room to improve the social health of Britain. The practical effect of this increase in the longevity of the English people is, perhaps, easier to envisage if put thus way. In 1881 one in seven or 14 per cent of the contributions to National Insurance were qualified for old age pensions, but in rapidly increasing age groups of the population increasing that in 1939 one in three or 33 per cent of the contribution will have qualified under the present regulations to have their old age pensions.

I suggest that in population expansion Potential longevity is the the greatest factor, expectation of life under optimum conditions. Potential longevity depends entirely on the hereditary constitution of an individual, indeed the chief factor in living to a great age is to have been equipped as a "good egg" (genetic). Specific longevity is the duration of life under special or optimum circumstances, such as the degree of risk of infection, type of occupation, and standards and habits of living. A useful rough way English country gentry used will show how the common is one to isolate the factor from the effects of the destroyed man: children before they reached the age of 15. Similarly, inspection of the tombstones in Bermuda naval cemetery will reveal how a hundred years ago sailors have cut down the under-construction of life. Occupation has exerted a terrible effect on shortening life. The Pattern industries, was perhaps the worst of any one of all trades owing to a combination of heat and dust, dust, poisoning (phosphorus and the like). Pattern men to succumb with ghastly rapidity to that dreaded condition of the lungs known as "pottery's rot." Formerly dry, that grandeur made covered two years of the trade and in the nightmarish and constant conditions the average age of a potter at death was 40. At the

the cost of life may be paid the long. The quest, I repeat, and extended life, if the important factors present contained within and processing by exposure to all things, makes the prolonged the long of living of human beings. Taken most of them would be long, and also among the long from. This is supported, as an addition to the great knowledge of deepness, being the atmosphere of a brother's life, when it is such that the hatch has to be taken now and open to what a fresh supply of oxygen, when the lungs or the atmosphere goes on—a fact for "fresh air" to provide. There is a great similarity in this respect between life in a submarine and life in a brother. In a submarine, water and not air, and all things go on, but about 3 per cent (40%) long before the carbon dioxide becomes to some level dangerous to the human organism (about 5 per cent).

There is an old Japanese legend that, as the result of three economic effects in the field of sport, athletes were liable to the young of "stressed bones" (a term for athletes' disease, osteitis). This legend has a more a more complex—a combination without any sustained foundation. The medical science known as "athletes' heart" has been detected by many physicians. For example, Huxley and Liddell (1928) investigated the subsequent medical histories of all rowing clubs from 1875 to 1925. They found that the subsequent mortality among these clubs was less than that of the normal, even of a comparative group of non-rowing men. Besides of a far greater statistical estimate by the American Insurance Companies showed that athletes and ordinary university graduates in America had the same expectation of life (45 years at 20) (Huxley and Liddell). However, the same studies showed that the "athletes' heart" of the same men, even had a significantly longer expectation of life than the average. The cause of this latter observation is either surprising because one would have thought that the "athletes' heart" would have been more delicate and less able than the others and therefore not as good a life in the insurance sense. It may be, however, that athletes and ordinary men, the more athletes and are exposed to greater risk of injury, disease, or spend more time taking all kinds of means, steps and efforts than the ordinary man who prefer to spend his longer working in an ordinary.

Moreover, the athletes' type is most prone to be rowing than the football men. And rowing is a more dangerous form of exercise than mountain climbing or motor racing. However, this is a mere speculation, but one which might be well worth following up as a statistical research should those be outside data available as the large insurance offices. The effects of diet on the length of life have been studied by experiment and these experiments show that there is an optimum balance of food protein and vitamins necessary to obtain the potential longevity of any species. It is contrasted in referring about frequency as most of us have suggested. A British physiologist many years ago propounded the "one sixth" diet the most obvious sign of old survival in New York was clearly and Insurance Companies, weight their premiums against were weighted for men. Although modern diet does not appear to change life, but tobacco is bad for some physicians are somewhat clearer grounds to change life even in moderate quantities, especially in those

who already suffer from various defects. However, some authorities are urging, seeking to increase specific longevity. Improved hygiene has reduced the risks of infection. Industrial safety and legislative food inspection and hygiene have succeeded in a great degree in reducing the harmful long-drawn-out trades. Most chronic diseases occurred that in spite of all the protests to the contrary, those that who live longest among the workers enjoying the food of a better distributed and therefore better balanced than ever before. Statistics have shown that there is far less satisfaction due to other diseases, although in lack of vitamins and other necessary vitamins. It is however not enough, admitted that food today is more nutritious and less appetizing than before the war, anyone among the privileged classes. Although the increase of diet may have some effect on general happiness as good feeling, apart from appearing to a natural and a harmless pleasure, yet an appreciable effect on the direction of life should be caused by this increase.

The rapid increase in the higher age groups of the population is compelling increased more attention to be paid to gerontology and demography (population problems). These subjects therefore are equally, increasing important branches of sociology and a new scientific specialization, geriatrics in the direction of old age because the numbers of postulates, the duration of children and a new Journal of Gerontology have been established to study the conditions and other matters associated with old age.

The preservation of the health of the aged, especially their mental health, should be a special duty for the state. The subjects concerning and other institutions of these days including the decreasing number of young children to help them, the useless neglected lower life and the passing of the institutions of the family has let more, old folk very hard. Recent reports which have drawn the attention to the wretched plight of some lonely and people are considering the public awareness. In fact of circumstances more of the aged poor are today often lonely, they, all feel ill-housed and miserable. They have become so are made to feel that they are unwanted members and persons on society. Social surveys indicate that better state of affairs is highly necessary, or at least could be greatly ameliorated. With a little trouble, kindly discipline, permission and common sense many of these neglected old people could be made happy, alert and well supporting citizens and add their quota of work to the wealth of the country instead of degenerating into chronic invalids, losing their self respect, and remaining a burden on the state and town.

The care of the aged and the exploitation of their capacity for mental work would be a far more rational ethical and profitable policy than the expenditure of millions of pounds on the care of lunatics and epileptic seizures as this may be on the name of humanity.

It will soon become a financial necessity, as well as a moral duty, to organize the productive potential of the old as the ever increasing proportion of unproductive old age persons in the population causes the French, more and more women. For if things are left as they are the entire rest of the rapidly growing number of unproductive old age persons will have to be borne by

the devastating results of younger generations' loss of a traditional identity in an advanced civilization. At the last International Congress for Mental Health (London, 1946-1947 August-1948) Dr. L. Ching pointed out that in China, before its recent civilization had been destroyed by the Western barbarians, "not a single generation of culture and progress. The aged Chinese had no mental worries, the understanding of the social functions of the institution of the family, being perfect. So first it was the primary, fixed and automatic duty of Chinese children to care for and advise their parents as they did age as a matter of course—not another example of the importance of the social values and ethical codes of ancient China, compliant with the moral codes of the barbarians—which have now driven them from both East and West."

Before the industrial revolution and the advent of the cinema, most Japanese newspapers and books carried something similar to the Chinese child responsibility for its parents and raised in Britain, especially in the country. At that time the family was still generally a self-contained unit with stable and continuous traditions which automatically and subconsciously inculcated other itself and its functions from the birth to the death of all its members as they flowed down the stream of life.

The method by which the main problem in gerontology of the future might be solved has already been hinted at. Old men are not happy as old bodies as they need to be the very best of their increasing numbers as proof of their. Most men of 65 are not nearly dead and in those days of high expenditure on social welfare it would be more economical and sensible to train and more desirable to spend some of the cost of present expenditure on pensions and allow more in equipping or subsidizing the employment of the old men as part-time jobs and lighter work, when they get past doing their usual life's work. Some people were formerly born here already doing enough power work on this problem to prove that it is an even with practical and profitable policy.

The social health worker who possesses any vision, may say, spread about all this social concern, because there is something very very strong about a spirit which encourages (there very much gently) the idea that work is evil and leisure is only useful if one can be assured his professional interests, perhaps, perhaps, that some professional facilities, and other facilities. To make oneself too much like that, evil thing, work. Again of course this is only a superficial aspect, an outcome, but large percentage, perhaps more than three-quarters of the population here working men with a few women in most fields, be it gardening, firework, brick-laying or even others which occupy all their spare time.

While in a human society, raised even in a national society, the mental and physical who is mentally or physically defective through no fault of his own must be cared for yet today, it would seem that a pessimism has been placed on medicine. Therefore our medical schools should be more deeply in which the psychological factors are very largely ignored or entirely lacking an undesirable effect on encouraging the low threshold and intelligence at the expense of the energetic, healthy, and bright members of the species. The

problem of how to help) and encourage the genuine and deserving victims of fate and at the same time to discourage and punish the others. The weaker the stronger. The age- and other self-interests is a real problem for the politicians of the welfare state—only to be solved by patient research and more painstaking experiments in social psychology.

Therefore at least be on try to keep our old men keen, interested and happy as, employing them in useful congenial occupations, for as long as possible, but no stop destroying their souls before their time as we do at present, by taking the same path of increasing on the aged larger and larger gifts of such which they would be happier coming.

Productive work is the rule and wealth. Therefore about half the wealth of those who work with hands or brain employed in keeping the main production-machinery of the community the children the sick the old and the old age pensioners. This theory combined with the fact that suggestions in social health have increased our expectation of life by ten to fifteen years should make us encourage our healthy old men to work, and to spend their even loss of life (according to their ability) in adding to the wealth of the nation in happy, productive employment rather than waste their wealth in miserable idleness, deteriorating in body and mind as they drag out their last days doing nothing on a pension.

Of course many influential trade unions and politicians would demand such a scheme to stop as impractical and a great infringement of the liberty of the unemployed. But some day, not so far off, some such scheme will have to be implemented as has been the case with so many improvements in social health which the ignorant old men who rule as our grandfathers. And of late condemned as impractical impossible factories and universities public opinion finally forced them to take action. With this in the context I fear an idea from just a hundred years ago when a tyrannical government was accused of interfering with the social freedom of Englandmen by preventing them from employing their infant children in the coal pits for sixteen hours daily. (asky warning) here we are arguing for the employment of our old men to save them from the loneliness and boredom of retirement and in so doing to save the young grandfathers from the exhaustion of carrying their grandfathers on their backs in pensioner's handsets when with a little sympathetic and rational questioning the majority of grandfathers might be transformed into helpful constructive partners in industry.

The second problem in gerontology which is of supreme importance in social health is the treatment of the last twenty five years of the old men who have dug themselves into all the positions of influence and power the last long. This is the problem of the revenues of the old men's "pensionary". While it is better for the old to remain employed as long as possible it is not essential that the old should continue and therefore should continue in undisturbed occupations of the highest administrative and responsible key appointments after their mental powers are definitely on the wane. The younger men, more intelligent and enterprising younger men might not so be kept waiting for years, hoping for these unobtainable positions to return or disbelieve they get a chance of slipping into their shoes.

During the last war the fighting services attempted to select the natural pioneers, by giving higher commissions to younger officers of proved worth, and by rigorously enforcing the rules and regulations regarding retirement for age. But the old service officers' experience was not needed in wartime, because in a manner which is worth careful study by us just governing bodies in peacetime, nearly all its retired officers were so employed as to be responsible and too numerous jobs outside to their age and strength. In the Royal Navy this custom has been largely abandoned for some years, and throughout the last two World Wars. There is no suggestion of loss of dignity when high ranking senior officers on the retired list return to the sea to be employed as junior officers in order to aid their country and the Royal Navy at war. Admiralty also go to sea as junior officers only when the request then issued on the retired list as Commanders or Chiefs. For example we have the case (Hans. 1950) of the celebrated physicist Lord Rutherford, Commander V, which was commemorated by school leavers and officers, some of whom were originally appointed to her as sub-lieutenants. It is alleged three aged sub-lieutenants requested that they might be promoted to lieutenant as being well over fit; they felt that they had not grown the customary mustache and therefore would like to be granted ward room status. But since the senior lieutenants in Whitehall were selected, and the request was granted when Winston Churchill supported their plea on the grounds that " youth must be served," incidentally the marginal of Commander I, a son of one of our old P.M.'s, Sir John Ross defined I.R. War P.M.C. who besides being a first class operating engine boat's master, acted as an acting young assistant vice-master. These 3 first class gentlemen all died with their hands on when they went to sea with her coast cutter on 22d June 1940—a last war war then beginning on the 3d, since it developed as a state procedure as a company director's duty suffering from weak dementia. There is no reason that I see of why, when such our system of retiring at 55 to 60 to be so employed as to be responsible as senior jobs, should not become routine as peace as well as war when as well as about except for the usual " it is impossible because and an evidence " of the aged gentleman and the anticipated here, since who generally have the last word in deciding their own managers' independence. But the depressing fact remains that some, of our service institutions, observed legal and medical are all under the thumb of politicians who though well paid their price are rated into their jobs.

Professor Barad (1959) at the age of 40 was of opinion that " geriatrics " is the greatest factor holding up the advance of science. I think I had this conclusion a slight over statement, but I repeat that that is because I happen to be a " has been " geriatricist myself. There is however a sub-stratum of truth in Barad's contention and I have enough insight to realize that physically and mentally I am not the man I was twenty years ago.

Usually " intelligence " as measured by psychological methods are peak between 20 and 30 years of age, and thereafter decline slowly but surely (Welford 1950). But the remarkable number of years the effects of a serious experience and its mending leave little for not a right for fall in " reasonable " intelligence, in an individual's wisdom, judgment, and experience. Personally

also a man is not his best between 30 and 40 years of age. Performance in these most strenuous competitive sports like swimming, rowing, canoeing and boxing which require a man to be a hundred per cent efficient all the time usually decline rapidly after the age of 30. Though these are unique exceptions to prove the rule such as the Olympic hurdler Wang Commander, 35-6. Another who was still able to break his own records when the young wife of 30. However put us with potential mental capacity, experience and passion was much the decline of intelligence for less or rarely, years as in games of skill and other pursuits where the expenditure of energy is gradual and the development of technique, *homo pater* (*pater pater*)¹ is not often required as for example in *belluina* (breaking crabs), golf, lighting crickets, gardening, carpentry and shooting, actual skill and performance may increase long after the *homo juvenis* has started to fall with the depreciation of the human engine. Ours, for example is strongly of the opinion that the qualities of a best the old age outweigh the loss of physical activities, and mental abilities of youth. In *de senectute* the most famous of all essays on old age, he deprecates all those who despise old age as feeble old age. I never, however, admit the principle that the child is father to the man, and means that a well respected old age is of necessity the offspring of a well spent intelligent youth and maturity. Ours undoubtedly, was most emphatic in his estimate of the extent to which certain judgments have of character and take care to mention in old men and compensated for the loss of the vigorous, passion, virility, energy and mental alertness characteristic of youth.

In writing a metaphysical essay. They advance therefore no argument of any weight who say that old age is not wisely required and they resemble those who would maintain (if there be any) could that the poet is not employed as carpenter when some are chiseling the stone, others running up and down the docks, others pumping out bilge water, while the mariner sits at his ease at the stern looking the rudder. He may not be doing what the young man do but in truth, he is much more artistic and much more productive engaged. It is not by physical strength, or speed, or bodily agility that great actions are performed, but by counsel, by force of character, by judgment of which few have old age is not not only to sustain a character now but even to create an unusual development.

Ours appears, therefore, to take the characteristically opposite view on generativity to Herakl and most modern thinkers who declare the principle of generativity by others. The truth doubtless lies between the two views.

Progress is various, commoner, and would be with justice) require to make use of the driving power of intelligent passionate active and enthusiastic youth, but youth's over-zeal and representative need be balanced with the wisdom of conservative experienced disillusioned but learned old men. Ours if I dare criticize such an authority, is really comparing youth with experienced maturity, not with old age. Few of us, old men who can think calmly would deny except when we have finally reached our change, that a good middle aged man is a better guide, philosopher and friend than a good young man is a good old man. The point is again largely psychological. We

old men fall back on a re-examining the value of experience, or at least to admit, as in the case of *Leviathan*, that their own choices (if not *others'*) judgments and hopes though we have to admit the meaning of our physical presence.

We hardly needed to see pictures of the wisdom of old men that until recently the culture youth who had never been old believed that there was some indefinable quality of old age in itself that gave wisdom value and a special credence to and other's judgments or decisions.

The experiments with *Leviathan* are that men in a theater as well as poets must not let his last before 90 are mentioned in a really startling manner by the observation that most great geniuses in the scientific sphere have done their most original creative work before they reached the age of 30. Newton formulated the Law of Gravitation and revealed the calculus (between 30 before he was 34 years old. *Beals* had proved experimentally the law of Conservation of Energy before his 38th birthday, and Einstein had completed his most original work on General Relativity before he was 35. This was startling revealment of most people's preconceived ideas on the age distribution of intellectual judgment and mental capacity. However not all old men have deceived themselves in this respect. Aristotle (France) who lived 70 wrote: "It is never otherwise the Greek idea that old men are wise. They are captured, nothing more. They are less intelligent than they were in the prime of life."

Wells has also said: "Not a word was said, the understanding of the aged."

This fact is well known to some scientific circles. Indeed in a recent broad note by Robert Wilson Watt (1978) pleads that as research indicates a change should be made: "the only able scientific youth to make contributions in science before his prime has peak of originality, somewhere around age 35 and before age 50; and then to pass on to other useful activities." So Robert goes on to our big industrial concerns could direct "the scientific research about age 35 into the channels of development, design, production, direction and maintenance." I must say, however, but surely the world does not have a falling over though the earliest signs of the decline appear at that age.

Gerontology has caused some local worrying and discussion among the Fellows of the Royal Society: "of persons of whom are over 50 years old. It is doubtful if the younger scientists have enough representation on the Society's premier scientific body. It is difficult to see how this deficit of talent can be made." because except in the exceptional chance of an exceptionally brilliant man working as in an unique discovery, which is also extremely rare and unique to other representatives it must generally take a turning of some power before a young researcher's work can be considered as being a sufficiently important fundamental and original addition to knowledge to merit special recognition. The same law of increasing applies to the higher ranks and the more responsible positions of those in science, commerce and industry. A computer unless it grows needs a long time to prove his worth. If gerontologists are as serious as I believe to progress as I believe would be in fact, then every effort must be made to get rid of them and give younger and less mature men a chance to direct and take charge not only in science but also in the legislature, the fighting services, industry, and elsewhere.

In some advanced age at each different school, school such extreme differences in intellectual and acquired mental equipment, and in the power of learning from experience, that a more difficult and complex problem than the suitable agent which to induce adjustment is hard to imagine. Young, a possible case of 74, though he may have less a better man at 65 or 66, yet as well as 70, would have to be made firm in profession and country than a less gifted man of 60 or 65. But after all, Howard Crosby and William Charles, we find and the between, the acceptance who gives the rule.

From my own subjective and objective experience I get the idea that decreasing intelligence and desire, and increasing knowledge of one's job and the world in general before at about 70 after which the fall in general efficiency sets in with a variable acceleration. I am sure, however, there is a good case for assuming whereas for which age at 70 one returns into less strenuous, less responsible, and less influential positions and be replaced by younger selected ones.

There is certainly every reason for giving the young generation many more seats in the national legislative, academic, and scientific councils of the nation. If the law the church and state of all sorts of our educational institutions, but no means of changing the rule of the old men who say, hang on to their seats, livings, and professorships till they die. In the dark ages, as H. C. Wells pointed out in talking, professors a man could only be as old as his tools, because the education could not speak with dignity and authority. Thus the lack of wisdom and sense was a blessing in disguise as to the way out of the people from the tyranny of the old men.

A change in order of events in the habit of getting to become questions and movements about the great achievements of their youth and collectively to keep the good old men in the department of the young generation of a young man. With these I confess I often such myself out at the game—a case says that the return to my house in his dream. This habit has existed from the beginning of time.

If there was a group of youth in the old men a dream, then logically such new generation should be a degenerated model of the government, none of it and any improvement in the human race were Adam's days could only be a dream. The psychological reason for the old men's grouse against the young is in common man regard for his own last words and his own power—the old man and spends emotional energies of all age. Inidentally born before as a 70 old man of 74 shows his growth by rising superior to the weakness of the aged he says he. I am always angry when I hear ancient times passed at the expense of modern times. There is now a great deal more learning in the world than there was formerly, for it is universally defined. This comment is in fact history as it was in 1793. It is perhaps paradoxical that most of us old men whose brains to increase degree are worn out, rarely have enough intelligence and power of interpretation left to recognize that we have become old, dull and silly.

The problem of changing the government seems to be the solution of the larger problem of finding suitable replacement for the old men. There is

however, no pretension that governments should not be compelled to contribute toward meeting these needs, particularly in order to interrupt this past time when there is no longer like the last world of organized religion, if a kind of power of making decisions to take action, generally, not to act. He related government with no job without a perfect figure. He, the old old man, the example over the terms of the quarter deck and center of all the movement, pump, and circumstance in, moral concerns, now stands before us at the end of the full year, hoping that the delinquency, once the concern of his large last leg, has a couple of fingers for old times sake.

The discourse is finally prescriptive: it is earnestly hoped, however, that it does not lead to a halt in reality, becoming one of the most vital and urgent questions in the company, where and the moral health of the people, where old age, government will have decided in number within another generation, where moral concerns are considered of more to distance the last step of way, one looking old age.

TRANSCENDENTS

It is relevant to say a few words about death to end any discussion on old age. The fear of death is a manifestation of the end of self-interest in the natural tendency to cling to life. We can appropriately call this of death "transcendental" (Carter) as would be expected of a free thinker, defined death. He was also a true skeptic because he questioned whether death is the end of all things or the gate to another life; there is nothing to fear, as in the last instance one is sure not to be miserable, and in the second instance one can even hope to be happy.

Though writing in the character of La Fontaine who was supposed to be fit at the time, Carter was most memorable, was himself never very old, he was a well-proportioned man of 65 when he was transcribed. Carter to us are the present and alleged many of the characteristics of healthy old age.

On the other hand, that great natural but obscure writer, Aristotle, Proust, who declined and moved at old age, lived into his 81st year and he obviously felt as toward the mental deterioration and physical frailties which accompany real old age and he looked at. He also complains that "Old age is said to men even when it brings no physical suffering, as it brings them nearer to death."

Another most interesting contrast in the attitude of two great authors towards death is exhibited in the lives of the devout churchman, Dr. Samuel Johnson, and the skeptical philosopher David Hume. The doctor was an acknowledged hypochondriac and the main cause of his concern was without much doubt an abnormal and marked fear of death. Johnson, however, was more serene because, according to Samuel Johnson and that. The great business of his life was to escape from himself; this disposition he considered as a disease of his mind which nothing could but company. A marked fear of death or *thanatophobia* haunted him all his life; Johnson himself, however, asserted that "Fear of death is but natural, so much so, 'tis that the whole of life is keeping away the thought of it." However, Proustians would remark,

that for once Johnson here shows himself a poor mortal man. "Common" for peace of mind it is better for to face death continuously on his death-bed of consciousness. This living to ignore the idea of death is fatal to "immortality," where it may become a source of morbid imagination.

Hume's constant though unthought-of was a mild death fantasy (and will and understanding). He faced death and eternal oblivion without any sign of fear, with understanding, courage and even made plans on his death-bed as to what he should do, and then as he crossed the River. His death reported that Hume "died in such a happy resignation of mind that nobody could exceed it."

When Johnson was informed that Hume, the atheist, was not afraid to die, he said that Hume was either mad or a liar. For he (p. 11) "never had a moment in which death was not terribly to him . . . his ordinary notion he was no more to play and reward. As far as it is possible to read between the lines, it was the acceleration of his age that Johnson really dreaded. He compensated his thus comforted by the intensity of his religious devotion and his frantic attempts to be certain of immortality. He would not consciously admit age, doubt of immortality, and as one becomes aware his fear of death on the ground that he could not be certain that he had not secured eternal dominion. I doubt Johnson's sincerity here as some people surely believe that they themselves are *Quakers-in-a-hat*, the other fellow (Hume) is held to having committed the unpardonable sin, alleged to be a common symptom of mental disease and Johnson was certainly not mentally normal. But consciously or unconsciously, it was not immortality but immobility Johnson feared and later he gratefully admitted it, because at the age of 80 when a body who said "immobility was just sitting and therefore not to be feared" Johnson made up. More correct is to say that he is nothing that one would want even to gaze than one must, and then gaze on to me.

The body immobility, immobility, which is nothing, with the apprehensions of a which is dreadful! Therefore Johnson is clearly prepared to be threatened than annihilated.

Johnson is spite of his devotion to the Christian creed had given death a "immortality," which he was sure, while he refused completely, leave his differences against Hume and other atheists. He and Hume and other original innovators are very men, and will greatly themselves at one, experience death will not affect different feel for their unity, so they have between themselves no more. If I could have allowed myself to greatly, my unity of the express of death what time I might have acquired? Every thing which Hume has advanced against I instinctively had passed through me, would long before he wrote. Johnson here exhibits a common attitude of the behavior towards the agonist. The former cannot conceive that the latter is sincere in his disbelief. The Christian often claims that materialists are hypocrites who dare not as a form of intellectual collaboration—this, are usually showing off in order to gain a cheap material.

In several passages Johnson's (p. 11) duty, which is probably in dealing with an atheist. For instance, when Brownell talks forth saying: "When the controversy is concerning the truth of religion it is of much less importance

so how can someone say that the person of an opponent ought not to be spared for a willful sin? Is it not enough that the whole world think himself right? Johnson, opponent his opponent with Barrett and three pages before with the *Journal*, and his replies there and later, is considering the principle that it is ethical to demand some scale of ethics Christianity, or Communism, for the purpose of its defense!

Johnson 8-1 practically confesses he is himself a "sublimation artist!" who he confesses "Every man who attaches any label attaches to some degree an confidence in it, and therefore makes me uneasy" and I am uneasy with him who makes me uneasy. Thus poor old Johnson himself supplies the reason for his spiteful and suspicious remarks about Hume. What an eye opener to me the surprising admission that he had quarreled and quarrel with Hume's arguments against the Christian faith, and could have improved on them, had he had the faith respect for the truth. Johnson envied and hated Hume for having rid of the painful conflict between the fear of immortality and the hope of immortality, by man's own accepting and accepting the oblivion of death—the conflict which Johnson himself never solved, the conflict which remained a fatal personal complex responsible for much of his depression and nervous breakdown in life.

However Dr. Froehle, who was present at Johnson's death, reported that at the end his face was relaxed. Thus the poor old gentleman had a few peace. Most, as signs of all the mental distress the thought of it had given him during his voyage through life.

Just now today, after two world wars, must have experienced the very real phenomenon of "Dutch courage"—that fear is inhibited by the power of alcohol to dull the imagination, and I strongly suspect, from personal observation at many death beds of many types of patient dying from many different causes, that the dying intelligence, as the result of partial release of O. (Johnson) or of someone is, in the same happy state of unimpeded judgment as the mind possessed with alcohol or other narcotic drug.

Second Johnson's thousand hour of death is in harmony with the speculation that the religious doctrine of immortality was originated by a universal fear of death—when the promise of life beyond the grave has been incorporated in many religions as a bribe used by the priesthood to dominate their flocks.

For example W. G. Wells (1894) wrote: "The theme of all scientific books has and the laws of nature and becomes, as one of death as making for him at the end. All religions, all philosophies of conduct, wrapped themselves in these laws eternally repeats the strongest impulse to escape this suffering final fate, death."

Personally, as an old physician, I do not believe that fear of death is such a powerful ally of religion. The healthy religious man does not worry much about death until the time comes, and the dying man, relaxed eyes of him. Thus, rather as the life of the Johnson process, the philosopher can be an appealing statement with some unfortunate people.

Also I do not find any connection between a man's creed and the degree with which he fears death. Many Christians live the end as bravely as Hume.

the old and many others are so terrified of the obliteration of their ego as poor old Johannes the Chronicler.

Again I do not believe that, in general, the old fear death any more than the young. In my own experience I was much more afraid of being killed as a young man in World War I than in World War II. In the first period there was so much I wanted to do before I died. But as the latter period I know I had consumed all life had to give me, and although life still remains desirable death does not appear with a terrible disaster as my old age as it did in my youth. I can quite understand how when life becomes a misery from chronic pain and incurable disease death may be a merciful release, and the desire for it most rational.

REFERENCES

When living becomes an unbearable burden from the mental and physical agony of an incurable disease, then a voluntary, may death artistically selected, voluntary, is a rational and merited form of treatment. Euthanasia, in a form of this type consistent with the highest code of ethics, provided that the physician is satisfied the pain is unbearable and death inevitable. This is especially true when euthanasia not only sets free the patient, but also ends the mental distress and, perhaps, the material sentimental wastefulness of the time to those of the patient's family and relatives. Thus we are sympathetic with Phileteas, the artist who had selected the hour and prepared himself of Heracles. Phileteas was an apostle from a temple, worship of the foot aesthetically satisfied by one of those artists whose poems was believed to be always fatal. Therefore he tried alone to Chronicler the Lord of Death. "Come death, amiable Death, who now for its entrance for no pain can reach the door for entrance." Phileteas was chosen as the example of a patient who was euthanasia, because he also points the moral as to how careful the physician must be that his patient's prognosis is hopeless, before administering this only permanent and certain multiple euthanasia.

Here is the conclusion in the case history of Phileteas. Before succumbing to his wound he was led to try, because so many people or asserted his presence there was necessary to raise the wage, and therefore the famous surgeon Phileteas with Apollo as his anesthetic, successfully operated and saved the most able manual of Phileteas the artist.

REFERENCES

1. Hays, J. D. (1939) *The Social Implications of Science*. London: 262.
2. Hays, J. D. W. and Hays, J. D. (1939) *British Medical Journal* 1: 107.
3. Hays, J. (1944) *The British Medical Journal* 1: 107.
4. Hays, J. D. (1939) *London: 125* (January 1941).
5. Hays, J. D. (1939) *The Journal of Gerontology* 1: 107.

THE INTERVERTEBRAL DISCS AND SCIATICA

BY

LAMBERT ROGERS, F.R.C.

Consultant in Neurology

A GREAT deal has been written on this subject. I have previously discussed the evidence (Papers 1947, 1948, 1949) now widely accepted that sciatica is due to irritation of one or more of the roots of the great sacral nerve and that such irritation is usually the result of a lesion of the fourth or fifth lumbar intervertebral disc.

It may be convenient to trace the story of our knowledge of these disc lesions and appreciate their nature, when they are liable to take place, and what may be done for the relief of the condition which they cause.

HISTORICAL

As long ago as 1838 Robert Lawford, in his monograph on the spine, referred to the occurrence of post-mortem nodal protrusions of the intervertebral discs, and correctly interpreted these as discoid protrusions. He noted two nodal protrusions on the posterior face of the intervertebral discs, as an imbalance between the bodies of the twelfth thoracic and first lumbar vertebrae of a man aged 45 on the one hand, the second and third lumbar vertebrae of a man aged 20 and gave it as his opinion that "the present nature of the gelatine cartilaginous protrusion was the nucleus pulposus of the intervertebral disc." In 1880 Theodor Kocher of Basle described the lumbi of a man, John "Workie" aged 50, who had succumbed to multiple fractures after falling 100 feet from the top of a building, not landing upon a stone pavement on his feet. He had difficulty in moving his legs and pain in the lower part of the abdomen. There were multiple fractures involving regions of the lumbar discs which he described thus later: "In addition to fractures of the sternum and one other, fractures of the vertebrae and particularly the intervertebral disc, between the first and second lumbar vertebrae, had been ignored and from them even these. The bodies themselves and the spinal canal appeared to be unchanged."

In 1927 the first successful removal of a spinal tumour¹ was performed by Sir Victor Horsley, at Queen's Square.² Following this, the diagnosis and removal of spinal tumours gradually became common practice and by 1932 Charles Hickey of New York had published a series of over 100 cases of

¹ Horsley to Parsons, 1927. There is controversy whether or when the Royal College of Surgeons met to elect Horsley to the Chair in 1911.

² Parsons. I have edited the story of this operation, told us by the late Sir Charles Horsley, who recorded it clearly in the *operative* (then *Chal. J. of N.*) 1930, 1, 1930 and 1931, 2, 129.

spinal tumour which he had operated upon. Among them were several of doubtful pathology classified as chondroma or myxochondroma (and when later these were reexamined it became apparent that some of them were in reality, encysted nuclear masses from ruptured discs. In 1889—several years (1904) of 108 operations for tumour compression of the spinal canal chondroma (probably disc, sometimes) was found fourteen times. In 1901 G. H. Babbalan and J. H. Trasher in Chicago reported the case of a man aged 58 who felt something "snap" in his back while lifting a heavy weight and was unable to straighten himself. The same night he felt as if his legs had become dead and he could no longer move them. He had a complete flaccid paralysis of the lower extremities with anesthesia to the level of T₁₂ just a ligament along with destruction of some and nerves. The day of sensory return sixteen days after the injury and at autopsy, a posterior herniation of the disc between the twelfth dorsal and the first lumbar vertebra was found.

In the same year J. H. Goldthwaite in Boston reported the case of a woman aged 48 who developed flaccid paralysis of the legs after manipulation of the spine under anesthesia. At operation performed by Harvey Cushing no abnormality was found except some narrowing of the spinal canal at the twelfth dorsal position. The patient made a slow partial recovery after the lumbar sympy. The cause of the symptoms was considered to be rupture of an intervertebral disc. In 1908 a clear description of two cases was given by H. H. Marsh who recognized the nature of the chondroma masses and entitled his report "Lower vertebrae from intervertebral disc, degenerating tumour of the spinal cord." Compression of the spinal spinal with nucleus was present and Marsh compared the loose nodules which he successfully removed in both cases with the loose nodules found in cysto-chondroma tumours described by König in 1898. In 1926 a case of disc extrusion causing symptoms was recorded in detail by T. Aghajanian and R. Price Detrolle of Paris and in 1934 M. J. Hunter and J. S. Barr in Boston drew general attention to the subject by reporting a series of such cases.

We now know that either backward bulging or rupture of the annulus fibrosus and the extrusion of nuclear material is a commonplace occurrence and that most cases of so-called oligophilous tumours are due to root irritation (pathologic) caused by such movement or extrusion.

ANATOMY

The intervertebral disc consists of upper and lower cartilaginous plates enclosing between them nuclear material surrounded by an annulus fibrosus. The annulus consists of horizontal white fibrous tissue which encysts into the outer nuclear pulp or nuclear material which represents the pressure resistant or chondroblastic. Craig Moore (1917) has pointed out that the outer chondro may not always have been centrally placed and that in extreme protrusion of the nuclear material into an intervertebral foramen leading to an extrusion. The fact that in the young at least the nuclear material is normally under tension also makes it liable to extrude should a weakening or rupture of the annulus occur.

The deep pit, situated in the lower lumbar region, where this nerve lies nearly half an inch in depth.

COMPARTMENT SYNDROME

Some animals have an osseous septum. The vertebrae and the intervening discs of the sacralish (23 plus Gluteus) must be put under great compressive strain when it drives the sacral horns, but so the nucleus is osseous parts of this tail's discs are being extremely osseous nerves. Not all fish have bone discs. As Edward Hesse (1966) commented that when he was examining the internal structure of a large fish, *Aquidus Marstoni*, he met with a peculiar unit in the intervertebral substance— a bony fluid pocket and with no much solidity that it rose to the height of four feet. In some cases, the nucleus content of the discs is squarish under high tension.

If by the disc lesions were 1—12 it is well known that the intervertebral discs degenerate with advancing years and perhaps that is not surprising at a time when degenerative changes are widespread. Extrusion of nucleus material, giving rise to cysts, frequently occurs, however, in quite young subjects, and there may be several factors which influence this, such as a marginal one of an excessive position of the vertebrae to which reference has already been made, and the heightened tension of the nucleus content in the young. Possibly also changes in the tissue of the discs brought about by hormones that as other influences may be contributory, which enquire whether in the face of a severe strain or of repeated minor ones, plays an obvious part in some cases. In many cases of cysts, due to disc lesions in young people, however, there is no clear history of injury.

Whatever the cause of these lesions it is a curious thing that they occur so frequently in young healthy persons.

If on a case of trauma, we can establish causes such as widespread lesions in the pelves and femurs of the spine or trunk regions, we can be fairly confident that a disc lesion is responsible.

THE IMPORTANCE OF SURGERY

The Importance of Another Particular in Investigating Cases.—In many cases, disc lesions which cause cysts do not produce any degree of overstretching in the spinal canal. Occasionally, however, the lesion is massive (fig. 1) and then they do so. The only positive indication for early operation in cases of trauma is the presence of either massive extrusion or of a tumour. For this reason, in all cases of persistent cysts, further procedure should be carried out in ascertaining the present content of the fluid. It is only while this occurs whether the Spinothalamic phenomenon is present and of normal type. If from these observations, we can be sure that there is no spinal block present, there is no operative indication for operative treatment. If as a result, the case, the process is only worth all in 50 mg. or less per 100 c.c. there is every indication to be conservative and we should remember that rest or manipulation will relieve some, relieve and that trauma is a self-limiting disease of which we can even cure. In the course of time, the irritability of the root sheaths and the pain disappears.

Squid filled with H₂O is evidence of some chemical squid blood, e.g. water filled squid blood contained e.g. 20% NaCl in its plasma. Embedded blood filled squids (e.g. *Loligo* spp.) are found in some squid fisheries for operations since the range of the various proteins in the blood is rather broad or a narrow section between which is all means and purposes constitutes a tissue. Piglets are not all cases of suspected diseases during section, proved to be due to tumours (Lowe 1944; Rogers 1947) and these almost invariably are associated with a high concentration of protein in the fluid. The value of similar proteins in discharging thus seems to be important and is sufficiently well appreciated in several respects. The following case histories are treated and will serve to exemplify the occurrence of blood proteins.

A female collared lemur, the Hovvot Thelone, aged 44, kept in the 100% cotton and 100% polyester jersey, the back of her right leg and a small part (average 10 g) on her left leg were shaved. There was no secondary change: no signs of lymphoma or melanoma. The pigmentation was limited and the right side of the penis depigmented. The skin along the legs was present and small. After surgery, it is possible that a more direct treatment method, such as the use of topical steroids, hormone treatment, was performed and a pinkish red coloration, typical of skin melanoma, was very likely (see text) and started on the melanoma. In a small, young lemur kept in a 100% cotton and 100% polyester jersey, the back of her right leg and a small part (average 10 g) on her left leg were shaved. The pigmentation was limited and the right side of the penis depigmented. The skin along the legs was present and small. After surgery, it is possible that a more direct treatment method, such as the use of topical steroids, hormone treatment, was performed and a pinkish red coloration, typical of skin melanoma, was very likely (see text) and started on the melanoma. In a small, young lemur kept in a 100% cotton and 100% polyester jersey, the back of her right leg and a small part (average 10 g) on her left leg were shaved. The pigmentation was limited and the right side of the penis depigmented. The skin along the legs was present and small. After surgery, it is possible that a more direct treatment method, such as the use of topical steroids, hormone treatment, was performed and a pinkish red coloration, typical of skin melanoma, was very likely (see text) and started on the melanoma.



After the beginning of the twentieth century, however, the use of the term in a different sense has been common, although it is not clear when the change occurred.

The results of the study, as they appear from the text, are given in Table 44. It can be seen from the table that the influence of the temperature of the water on the rate of the reaction is not very marked. It can be seen from the table that the rate of the reaction is not very marked. It can be seen from the table that the rate of the reaction is not very marked.

As previously noted, the initial solution of the system of linear equations (1) must be the given one and must, therefore, also fulfill the n additional conditions that were obtained from our analysis. It is not difficult to find a solution to (1) which fulfills the n additional conditions, as we can choose the n parameters and put the n conditions upon the coefficients, as we can do in the analysis of the initial n conditions. It is not difficult to find a solution to (1).



FIG. 3. Lumbar vertebra, gross specimen, from a 55-year-old male (vertebrae L4-L5) from a patient with a fracture of the vertebral body, healed with the aid of a wire loop and cement.



FIG. 4. Lumbar vertebra, gross specimen, from a 55-year-old male (vertebrae L4-L5) from a patient with a fracture of the vertebral body, healed with the aid of a wire loop and cement.

The necessity of comparing such cases as the above, the importance of bony structure as a means of holding, and the desirability of performing early operation will be apparent.

Discussion

The causes of nuclear extrusion are probably mixed and various, and a surgical factor may play an important part.

Acute degenerative lesions, usually due to an extrusion of nucleus material from its bulging backwash of either the front or both lumbar intervertebral discs, causing a acute radiculitis. It is occasionally due to a acute radiculitis produced by other causes such as tumors.

It is assumed that extraction of data material is accurate, i.e. reasonably free from any bias, and that the operation is independent of the properties and characteristics of the underlying data. These are important, but somewhat unrealistic, assumptions. Which, in the case of about 12 years' worth of data, are of considerable concern.

If tumors, and various symptoms are excluded, treatment should be conservative in such measures as not reducing food consumption or a special regimen. Operation and removal of the entire stomach should only be resorted to in undeniable cases, for which, after the trial of the measures here indicated.

Abstract

The story of the growth of our knowledge of international law lessons is briefly outlined.

The structure of the device considered, along with the features which make some advantages of these devices control. The advantages for operation in case of nuclear accidents are: (a) to ensure; (b) ensure nuclear shutdown; (c) shut extraneous only when concentration amounts have been well tried and failed. The importance of nuclear protection and the impact of decreasing these substances are discussed.

Abstract

- Dajana, V. V. de. *The legal system of Romania*. D. (1988). *Bull. of Mem. de la Soc. et. de la*
droit 104-1042.
 De-maria, H. (1988). *Rev. Roum. Jur.* 29-394.
 Dima, G. R. L. (1988). *Arch. Jurid.* 19-302.
 Dima, G. R. L. (1989). *European Legal Journal*, London
 (1989). *Just. Soc. Sci. et P. Lit. (Louv. Marbais)* 11-111.
 Dima, G. R. L. (1993). *Rev. Roum. Jur.* 100-105.
 Dima, G. (1999). *Publ. Trans. Rev. Roum.* 40-111.
 Dima, G. R. L. (2000). *Rev. Roum. Jur.* 70-107.
 Dima, G. R. L. (2002). *Rev. Roum. Jur.* 1-10.
 Dima, G. R. L. (2003). *Rev. Roum. Jur.* 1-10.
 Dima, G. R. L. (2004). *Rev. Roum. Jur.* 1-10.
 Dima, G. R. L. (2005). *Rev. Roum. Jur.* 1-10.
 Dima, G. R. L. (2006). *Rev. Roum. Jur.* 1-10.
 Dima, G. R. L. (2007). *Rev. Roum. Jur.* 1-10.
 Dima, G. R. L. (2008). *Rev. Roum. Jur.* 1-10.
 Dima, G. R. L. (2009). *Rev. Roum. Jur.* 1-10.
 Dima, G. R. L. (2010). *Rev. Roum. Jur.* 1-10.
 Dima, G. R. L. (2011). *Rev. Roum. Jur.* 1-10.
 Dima, G. R. L. (2012). *Rev. Roum. Jur.* 1-10.
 Dima, G. R. L. (2013). *Rev. Roum. Jur.* 1-10.
 Dima, G. R. L. (2014). *Rev. Roum. Jur.* 1-10.
 Dima, G. R. L. (2015). *Rev. Roum. Jur.* 1-10.
 Dima, G. R. L. (2016). *Rev. Roum. Jur.* 1-10.
 Dima, G. R. L. (2017). *Rev. Roum. Jur.* 1-10.
 Dima, G. R. L. (2018). *Rev. Roum. Jur.* 1-10.
 Dima, G. R. L. (2019). *Rev. Roum. Jur.* 1-10.
 Dima, G. R. L. (2020). *Rev. Roum. Jur.* 1-10.
 Dima, G. R. L. (2021). *Rev. Roum. Jur.* 1-10.
 Dima, G. R. L. (2022). *Rev. Roum. Jur.* 1-10.
 Dima, G. R. L. (2023). *Rev. Roum. Jur.* 1-10.
 Dima, G. R. L. (2024). *Rev. Roum. Jur.* 1-10.
 Dima, G. R. L. (2025). *Rev. Roum. Jur.* 1-10.

PERSIAN INTERLUDE

BY

Sir John Cunningham J. C. CRONY, R.N.

I translated a Statement. Official publications entitled *Perspire* to the nature of anyone who has served in the Persian Gulf. It is a history of the Persia and Iraq Campaign from 1941 to 1946 and the campaign throughout is upon the exploits of the Army, to the almost complete exclusion of the part played by the Royal Navy.

In the early days there were two short periods of blindness—the first of these was in Iraq and it was caused by the rebellion at Qana. Blinded his on occasion by the Germans whilst the second in which I had the good fortune to take part, occurred in Persia and lasted from 1944 August to 1944 August 1944.

These events played little part in the actual theatre of operations. Persia was a headache about which little was known and it is doubtful if the campaign would have been so much as a thought. If however this incident had not ended in a victory for British Arms it is not beyond the bounds of possibility that there might have been world-wide repercussions and we might even have lost the war.

It had to be anticipated that a high proportion of our oil supplies came from the oil fields of Persia and Iraq. The Germans were well aware of this and had caused us a lot of trouble by introducing agitators into the country. Their measure's aim was not of all proportion to their small numbers and diplomatic efforts to get them thrown out of the country having failed we were obliged at last to resort to the force of arms.

Chapter 4, 1944 of *Perspire*—Armed Interlude in Persia—is a good account of these events but the average reader could well be excused if he failed to appreciate the part played in them by the Royal Navy for it is scarcely mentioned. It is true that on page 64 the following words appear: "The Petroleum which was to govern our fate to the landing parties it was now that appeared. There is no mention of the fact that the Petroleum got off successfully and was able to play her allotted part, and on the same page no word. But the signal for the landing had been the firing on a Persian port by the guns of the Fleet."

Towards the end of the chapter it goes on to say: "The Australian Armed Merchant Cruiser *Amphibian* was steering under duress towards Bandar Shahr, the little harbour at which the Trans-Iranian railway reached Herat. Most of the *Amphibian* was accompanied by the 10 British *Highways*. At the bottom of the same page it says: "While British operations were in progress ships of the Fleet at War and Royal Indian Navy were searching the two German and three Italian ships at harbour."

There are fourteen pages in this chapter and there is no other mention of the Royal Navy, who took at least as great a part in the operations as the Army, and without whom the latter would have been powerless to act.

Going back to page 64 again we find the following words: "At 7 pm on 14th August they had their evening meal and at 8 o'clock wearing gas there were beds on their backs and with lanterns instead the Wapitans were huddled in the little American motor house called *Shelter* the Kamsons in public boats. The boats moved down the dark river, stopped for what seemed to be hours, moved on at greater intervals. The men searched in other places finding nothing but the dark wall of palms. You would hardly gather from these facts that they were under fire, as the public boats from the White Kings and were manhandled by naval officers and manned by naval ratings."

Some of the Wapitans & Shaps which were involved and received not even a mention in Page 64 are: H.M.S. *Skiffels* being the broad pennant of Commander Graham, former Naval Officer, Fremantle Gulf; H.M.S. *Cardinal*; H.M.S. *Albatross* and H.M.S. *Edith*.

One of the best of our first column at Aden was a naval officer, Lieutenant Commander Royal Warran, but this is ignored entirely and perhaps I have not enough to show that the account as it is presented in Page 64 is the true one. I hope in this short article to fill in some of the gaps left by the official publication.

In the summer of 1941 a number of me, ships etc and I were languishing in Bombay. One ship which had a large hole in her side was sitting in the R.I.S. Dockyard. She had stopped on Indian coasts on the Red Sea and had been forced from Port Sudan to Bombay with a steaming party and two gun crews on board to fight the ship on passage. She was dry docked as soon as we arrived and the first step had been to paint her over with red lead. The ship's company had very appropriately volunteered her the *Red Lead* there as consequence.

We were all living where. The Captain and some other officers were staying at the Bay of Bombay Yacht Club while the youngest officers and I were about and gone to the Bombay Club on Marine Drive. I had a comfortable room with a large veranda overlooking the sea. The food was the best in the City and there was an air conditioned ballroom where it was possible to keep cool. A private contract to transport me all H.M. Ships under way would be hard to arrange.

There was little likelihood of the *Red Lead* being ready for us again for many months so in addition to repairs to the hole in her side she acquired four new holes. Her boiler room having been completely wrecked by the torpedoes.

Our numbers were begun to dwindle. One of the first to go was the Captain who was appointed R.O.C. Nassau. Other officers were drafted elsewhere and then people began to disappear up to March. The group of Ten Little Sugar Boys proceeded and in due course the Assistant Officer's term came

I was followed him and on 25th August I boarded the *Klaskar* bound with my "bag and baggage" for passage to Bards. Transport arrangements were on the hands of the Master at Amoy of my old ship who came to the *Klaskar* bound to bid me farewell. I was deeply touched. I was even more impressed when after my left Bards. I discovered that the enlightened individual had left a bottle of gin as one of the presents to me, taken!

We were escorted as far as the Gulf of Ouen by the *Klaskar*—little did we know what was in store for her.

We reached Bards without incident on 17th August. The sea transport officer who visited the ship gave us no assistance whatsoever, no transfer agent who was to join R.M.S. *Amantille* and I were left to find for ourselves. At last we took a taxi to Sengor. Sengor Officer Pearson Gulf's office (850194) where one of the copies of staff came to our rescue and advised us where to go and on the end we turned in on about 8502.

Next day I joined R.M.S. *Amantille* and took over officially from an gun officer who had been detailed to R.M.S. *Amantille* somewhere down the coast, probably at Pao. The takeover was accomplished a great waste of time and he departed for his new ship the same day. I made up number on 850276 and proceeded to acquaint myself with the situation which was distinctly confusing to the new comers. A diagram is necessary at this stage to explain the local geography.

The name Bards is often used loosely to include the towns of Bards, Achar and Wargi. It is about 20 miles up the river mouth of Achar from its mouth at the little town of Pao.

There is also a few Bards in Medan where the oil refinery of the Anglo-Indoan Oil Company is situated.

The old town of Bards—home of Richard the Sailor—is about three miles to the westward of the new Wharf at Achar on the banks of the Achar River at the junction of which is the town of Achar. The Port of Wargi is five miles north of the town, near which is a R.A.F. Flying Boat Base which at the time of which I am writing had no aircraft. A short distance to the north is the airport with its modern and comfortable air conditioned hotel.

Eighty half way between Achar and Wargi and some way inland was an army hospital the 20th Combined General Hospital. Originally it belonged to the R.A.F. but the Army had taken it over at the beginning of hostilities and regarded it as a combined station to say British and Indian hospital.

The navy was based between Achar and Wargi. The Senior Naval Officer Pearson Gulf had his office in Wargi but he and most of his staff lived in the *Amantille* an armed yacht which had formerly belonged to the *Lawrence* of Singapore. Near the office were W.P. ratings with their apparatus lived in a tent and next door was a house which had been requisitioned and was being used as a mess for the Cypherists. A few of the staff for whom there was no accommodation in the *Amantille* had rooms at the Airport Hotel. The Naval Officer-in-Charge Bards lived in Achar. He had a big house where he and the mess officers in his staff lived, near by was a smaller house for the junior officers. A third house was used as a naval barracks for about 30 men

and another for landing parties. The command post, which communicated with Indian personnel in (multi-lingual) Hindi and Urdu, the command was a success.¹

In addition to offshore, near, and on-shore, two ships were known to the enemy. One was called *Isopos*, the other *Nook*. They were quite unreliable as a designated manner could always find one of them if he wanted to go out to be. *Isopos*.

As I was the only naval medical officer in the Port it was of course my responsibility to look after all the wounded people which involved a great deal of travelling. This was facilitated for me by WGH—the 1st Indian Liaison R.N. who kindly placed his car at my disposal whenever I required it.

While this party the day I learned that a combined naval and military operation against *Perlas* was imminent. Attacks were to be made at three points—Khorramshahr, Abadan, and Basrah (Iraq)—which simultaneously with our offensive from the South, the Russians were going to attack from the North.

The troops were concentrating at Basrah. They would embark at the appointed hour on the *Korvik* motor boats—the immediate assistance of all landing craft—and the Russian H.M. Ships involved which would transport them from taking or landing to their objectives.

Isopos and then the Indian, experienced steam whaler, were to attack Khorramshahr. *Isopos*, *Shark* and *Isopos* Motor. From the gulf *Isopos* and *Shark* were to move into Basrah. *Isopos* was the port and carrying the eight, among six short coasters which had been captured there since the beginning of the war.

The Russian motor boats were accompanied by Volunteer Reserve Officers, representing the majority of the Russian Navy as well as the Royal Navy.

It is hardly necessary to point out that every soldier involved in this operation was entirely dependent upon ships of the Royal or Russian Navy to carry him to his objective, yet that fact has been completely ignored in the official publications—*Playfair*.

When I joined the *Isopos* everybody was in that state of tension which the conditions in the war created. Nobody knew precisely when our hour would be but it could not be delayed for long. Fortunately for me we were allowed a few days' grace which gave me an opportunity of preparing some kind of action organization but I had little chance of getting all the stores I might require. One thing lacking which I was going to need was an officer, *Isopos* pilot.

At last on the early hours of 13th August, the Russian Flag fell and we dropped down to our various objectives.

Isopos went ahead but got off considerably after some delay and was able to perform useful work as part of this work, making.

In the middle of a battle, be it large or small, one can take no intelligent interest only in events in one's immediate vicinity. The details of the pursuit as a whole do not become involved until all is over and the command has decided

down in front of the bridge, and away at this stage to a detachment which is still there.

My command was ordered to make up troops and left on foot at Wargal without making a final decision as to whether to dismount with our main body at a point of land at Akhondshah where the Kuram enters the Shahr-i-Aksh. I took it as my duty to run her back up on the shore, unless any opposition from an enemy machine gun post there, and lead her troops.

This went according to plan and we proceeded on our way toward the wide head of the river which leads to Kandahar. By this time the Kuram had started in earnest and gunfire was to be heard and explosions were from all points of the company. As we came in sight of Akhond there was a large bunker which proved to be the Persian gunboat, *Pishu*, which had been set on fire by the guns of one of our ships. She ultimately sank at her moorings.

Asafzadeh turned on the stream, under flag and came alongside the oil wharf, being pointed upstream past ahead of the B. I. K. trucks. *Asafzadeh* also had been fitted with landing beams to facilitate disembarkation and the troops were quickly ashore. A field gun was also landed. The oil wharf at Warden is protected on the landward side by a high steel beam and the gates tend to be burst open under heavy fire before the attack could be developed any further.

Countdown soon began to tickle back. The word soon was being used as a random shooting action and our first patient was the Colonel who was brought in with gunshot wounds through the right groin and a fractured femur. In the absence of a *Thames* spent I had to make do with a Long Lance which proved its purpose after a fashion. Two more British officers followed the Colonel—one had sustained multiple gunshot wounds from 6-40 mm. machine shells and was already dead. The other had two bullet wounds in the left side of his head and chest soon after. Some Indian *Amir* of the ranks followed.

Wounded personnel of war began to appear. Most of these seemed to have jumped into the river as a bid to escape and were rescued and their wounding of gunshot and from the water. It was almost impossible to recover all the men and for all I know they may still lie in the water state as we know of them none and made them as comfortable as possible in the circumstances.

Just then the Chief Officer of a British merchant ship who happened by the bridge had pointed his head over the bridge railings to gaze into through his face. It entered below his right eye and came out behind his right ear. Apart from which he was in very fine condition and was lucky not to have lost an eye.

Soon after this I was profoundly interested to see a man of mine for whom I was beginning to feel considerable anxiety. He had been landed about a quarter of a mile above Akhond from a motor boat in the early stages and I had sent him to check in the oil wharf. *Asafzadeh* a boat and we were here at the same stage. As all this had to be done on the face of the matter it was not an incredible job and when we did not see him at the appointed place I feared he was dead or wounded. However, he came out with nothing more than a superficial wound of the face and a bruise having lifted one of the bones and explained his fall. Some years previously this officer had been one of those who stormed the Hotel de Pothegge, on St. George's Day, 1915.

Throughout the attack on Abadan continued. A machine gun post was working the wheel around a lot of trouble but it was eventually silenced by Abadan's multiple post gun. By afternoon the situation was no longer good. With the help of the doctor of the oil company's ambulance who twice arrived with a small surgical working party, I collected the dead and wounded there in a bag which took them up to Basrah for burial. The wounded went up on the same vessel and were taken to the Military Hospital at Basrah. After their departure we had a short breathing space to take stock of the situation.

Asafie post went up to Kikerramshahr where Palomah was already doing work and a little way ahead of her was the wreck of the Persian gunboat *Saba* which had been sunk by the *Arcon*. Palomah's medical officer had had a busy time with casualties and had caused not a very conspicuous impression through the shabby part of his casing officer but undignified, the patient did not survive. There was a wounded Persian officer in the Persian Naval Hospital and I arranged his transfer to the oil company's hospital at Abadan where he died soon after. We learned that the Commander in Chief of the Persian Navy, Admiral Basher, had been killed leading a combat vessel.

Next day, Asafie went downstream as far as Fao at the mouth of the Shatt al Arab in order to cover the flanks of the *Arcon* as they conducted mopping-up operations. There were numerous machine gun posts along the river bank, and we quite expected to be swept from there but they were all deserted. An H. B. A. reported one, with a parabolic and I searched him at Fao where there is a small hospital as I did not want a sick man on my hands if there was to be any more fighting.

While these events were taking place on the river, Amersmith and Fiedtleyer had been conducting a private war at Basrah 'Shakyer'. They captured eight enemy merchant vessels which had been lying there since the outbreak of



A Launch moving for a collection



Blackburn's shipyard.

bulldozers and is loaded with the debris of a wrecked but a floating dock, in the bay early in the proceedings. A recent's son-in-law, a tall white man rising to meet a man which was flying over the place at full speed with engine, cannons, no board. The prisoners of the ship were and were many, were released which probably gave the prisoners a hope of consolation for some to come.

Next day Sadele went round to Blacker the bay to see how things were going and after a short stay returned to Ushak followed by Rosenthal and Cookley. VOGHE transferred his flag temporarily to the latter and went up the River to Alaska. Conducting the news showed through that the Russian had asked for an armistice on the 14th day, war was over and it only remained to discuss the situation from the diplomatic angle.

Soon after that a party was given at Alaska in the Astoria in which Sadele's officers contributed their share but the main difficulty was to find the necessary munition and we were obliged to purchase from our prospective partner—the members of The Anglo Russian Oil Company—before the party could materialize. In spite of these difficulties it all came right in the night, and was joyfully accepted.

A few days after this party the Commodore and his staff attended a peace conference at Ushak which was to settle our relations with Russia until the end of the War against Germany.

After his return he took a trip to the Sadele down the Gulf in the 12th day when we spent a few days. This was a pleasant trip, and although the Gulf is still pretty hot in September there was very much of a peace atmosphere after the horrors of the previous week. I visited the American Mission Hospital at Matsua and the Russian Petroleum Company's Hospital on Anah which is an excellent and most comfortable. One of the luxury two

were in confusion and it was most refreshing to step into one of them from the lower level outside.

The Street Room was being enlarged. There was a comfortable seat and an excellent open air swimming bath with running water which was quite cold and refreshing in consequence.

Our stay here was not prolonged and we returned after an absence of only a few days to our berth at Margot.

In October Asieko left the Prison until temporarily to visit an illness. I was obliged therefore to look after her and report on to the Surgeon Officer. When at Asieko the weather was beginning to cool down a little and it was pleasant to sleep underneath a blanket though the heat during the day was still so severe.

The two had some form complete reconstruction of the naval establishment. The Commander and his staff moved to Asieko. The Surgeon with a house at Asieko whilst the staff were given a house opposite the office at Margot. Early in the New Year it was decided that the main Naval Base should be transferred from Asieko to Khorramshahr. It had already been recommended with the name H. M. S. *Expendable* instead of Asieko as it had been called previously.

The next three months were spent in preparing Khorramshahr and a skeleton staff moved down there in November with one medical officer. We arrived to see the Persian Naval Hospital as a half-Gentlemen and to a problem as it had to be cleared thoroughly as it was in a fearful mess when we took it over.

Perms were beginning to become expensive so one of the main routes of supply to Basra. There were three ports at a link it was possible to off load ships directly. Basra, Musque which was the terminus of the Persian railway. Abadan which was a canal and Basra where the ships came on the rising side of the river. Subsequently a wharf capable of taking six ships of the same type was constructed at Khorramshahr by an American firm and a barge line was constructed from there to link up with the main line at Abadan. At Abadan a large number of British barges were loaded and assembled. They were then flown up to Firsan where they were loaded on to the Russian locomotives and rolling stock were also off loaded at Firsan.

The importance of keeping the Strait of Arak open to shipping, trade, no stopping, and we gradually built up a small sailing operation extending from Basra to the mouth of the river at Fir.

A number of large vessels loaded rather like house boats were moved back and moved at intervals down the river and a fleet of tugs was also requisitioned. The tugs were a motor craft resembling a large oil tanker but constructed more. Each barge had a number of houses based on it and their purpose was to ply between the barges and in the event of a river being stopped to proceed to the upriver and down it.

Early in September the first was engaged by two trawlers which had found their way round Africa southern. These trawlers were both North Sea fishing boats which the Russians had used but had lost before the war. One

of the treasure had run aground in Kamoko when, on the words of her Captain, my Olohe he—was a blow of light and people walking up and down all around. An ordinary morning chose this opportunity to desert but he was eventually apprehended and sent up to Boruch leaving there only a few days later than his ship. In his defence he stated that he (Bulu) like carrying in a ship where they were engaged in gamewark—and that, mostly gamewark wrong.¹ This, however, in outsparring him as soon as the ship arrived I was asked to examine the Captain. I found him as, his back. The state of the cabin was chaotic and a dark watch lay on the deck having obviously been covered as an act of negotiation. The Captain was very whey and I judged he had been poisoned. His manner too was odd and when I suggested if perhaps he might have had a little drink on the last few weeks he seemed me almost with tears in his eyes that he was a little long testicular. He was also a little to account for the half empty bottle of whisky at the foot of his bunk which he had not seen before and in fact he was so overwhelmed by the mystery that he drank it then and there to break the habit of a life time and suggested that we ought to have a quart one together he did take none. Reluctantly I was obliged to declare his foul odor so I had no wish to start him on the road to Hell and packed him off to hospital instead.

In due course he returned to the ship but I was soon asked to see him again as he had a nasty, jagged laceration on his leg which had been caused by his dropping a broken glass over it. I took him back to hospital and this time we considered him home. He was 70 years of age and it was asking a lot to require him to stand up to the horrors of a Friesa Gulf campaign for the last time in his life.

Both these treasurers were real treasure and had apparently been selected for the job with a view to ensuring as many runs of heat stroke amongst the sailors as possible.

Soon after this two more Chiss gamewarks, the *Bowser* and the *Scowd*, arrived.

As the weather began to get colder with the approach of winter flights of duck, magpie and hawks appeared on the coast. But I tried shooting them from both guns, but this was not very successful. Later we shot them from the rear gun and had good sport. This was a great mistake, and made a real come addition to the pot. We also shot black parrots, which make excellent eating.

In February (1941) the coast Naval Base was finally moved to Whangamata but WOLPC remained in his *Admiral* house which he still stored at Mapi. A few officers and men also remained as a maintenance staff at *Admiral* and *Amble* stayed at his birth at Mapi for WOLPC's was so near he never had occasion to visit the Gulf.

The old building which had served the purpose as a naval barracks was taken over by the V.M.C.A. and the former naval officers moved as a barracks for the few left at *Admiral*.

We continued to depend for communications between *Admiral* and Whangamata and via our *Bowser* as further boats between the two places, mainly two large

a day in each direction. They soon began to have trouble as they had had direct hard during their spell of active service. The R. N. Patrol Service motor mechanics wanted machines to keep them going but when circumstances happened to them, all the vehicles broke down and they were defeated.

For a time I remained at Ashes but it was eventually decided that I should go to Khareenshahi to be in charge of the back Quarters there. In many ways this was a better arrangement but it meant leaving NNDPO and his staff with out a medical officer. However it seemed that wherever I happened to be, I was inevitably required at the other place for if I was at Ashes, there would be a terrible riot at Khareenshahi whilst when I was at Khareenshahi NNDPO would be sure to require me urgently at Wazir.

The R. N. back Quarters, as we discovered the old, Prison, was ill-equipped with rather primitive but we at least had a laboratory and a microscope. We still continued to use the Military Hospital at Wazir for surgical cases and received some help and consultation from the R. A. M. C. there. I made a point of visiting Ashes at least once a week whilst I was at Khareenshahi so as to see to see any of our patients who were in hospital and I would usually spend the night so as to have adequate time to see everything and discuss any outstanding problems with NNDPO.

In time more medical officers arrived and I was able to put one Surgeon Lieutenant in Ashes and to help me at Khareenshahi and later a medical one at Jhelum as well. In addition the measures I used to change them round, at intervals of about a month and the R. A. M. C. used to do a spell at Poon which helped us out considerably. Besides he now had his own Medical Officers.

Our sick beds staff was also increased and before long we had two sisters who were sent up from Calcutta.

There was a period of intense cold soon after we moved to Khareenshahi so much so that even one of our blopper doctors was complaining of it. He had spent the greater part of his life looking at the Arctic Circle and people were astonished that he should feel it so badly. 'Surely this cold was no wind to the cold?' I knew, he replied 'but that is a different kind of cold'—and it was too a raw damp cold that got right into one's bones.

In contrast the summer of 1944 was exceptionally hot and I began to be very concerned about the health of the 'Ship of Company' most of all being about a thousand. The situation here the mudflats and mosquitoes and moreover the depressing effect of lack of exercise—we all felt we were in a backwater and doing little or nothing to further the prosecution of the war—we were beginning to suffer greatly. My wife informed that the R. A. F. had established a Fleet Camp in the grounds of the Summer Legation in Dhahran and we decided to find out if there would be willing to accommodate small batches of us if necessary. Accordingly the first Lieutenant and I determined to go up there to make inquiries. In fact, therefore the two of us set forth. We started across the desert in a lorry where we caught the evening train. We were provided with a dogbox which was quite comfortable but I lay on the roof all the night watching the country by the light of a full moon. The line ran through the Khareenshahi and Legation mountains and the midnight glow the western

quite nightmarish quality, which is not easy to describe and it was hard to throw myself away from the window at the compartment.

After finishing the Lareira mountain the railway comes out on to the typical Plains of Potosí — this is essentially a farming country and there were numerous small house-holds looking like small estates though there were very little of land. There had obviously been little or no work in silver. It was a wild country and as far as the population was most necessary. There was a gradual incline on the road went on steadily, northward and we saw a good number of mines, except where settlers were farming.

There had been a superb engineering feat. The climb through the mountains necessitated the boring of many, spiral tunnels and the line worked in great zig-zag with in the early stages of the work the Rurren river in below on its turbulent course. There are bridges and viaducts over narrow deep streams. The country is wild in the extreme and though it is particularly of engineers in the midst of the stark mountains is no sharp & barren as to be quite startling.

We reached Orizaba at 11 am next day and reported to the R.T.C. who directed us to our hotel in the city. I realized that all the last winter papers in the building were in ruins close passages, in my bedroom and I was forced to push my bed out on to the veranda because of the heat. At a very early hour next morning I was attacked by asthma of this so I turned out to there was no possibility of any more sleep under such conditions.

After breakfast we called on the R.T.C. and were shown round the rest camp which was in delightful surroundings with a swimming pool close by. They kindly agreed to show us to coal up loads of metal ratings, but at a time for the rest of the summer. We saw Khamsabula and the best bath were actually as they were before we got back there.

Business over we went first to see the sights of the town. Orizaba is a modern city of new and imposing buildings, but at that time the sanitation was primitive in the extreme for all the sewage was carried in open gutters at the side of the broad streets branching out numerous streets of houses in the middle ages and the tunnels. The gutters were flushed out at least every evening and so far as we could ascertain what they had been done and also a supply of drinking water was cut down the same channels and suffered in variable quantities by the inhabitants. It was in this then I witnessed the strong smell of drains which I turned on the bath in my hotel.

We visited the Club and called on the Secretary who told us in constant committee of members for the duration of our stay in Orizaba. It was not so delightful grounds and made sure at that time served out of doors on the lawn. Next we went to the Hotel Nacional (in miles outside the city) amongst the mountains and were served with potent and very elegant cocktails.

We found that evening at the Club. The meal was out of doors, and such a fine, delightful in number and here pleasant was to have a good meal in sitting and not be bothered by the cold and as there he arrived at 10.15.

We returned to Khamsabula with some collections after three days.

A boat was sent to pick me up as this was my old ship which I had left in Bombay. I was a bit tired but in good luck. The effect of the change was beginning to tell and I began to think that in some ways the ship was getting better and better. This is not surprising when it is remembered that light cruises of the class were built during the 1814-1815 War for service on the North Sea and were designed to be at sea for not more than a few days at a stretch. They were quite unsuitable for hot climates and here was this poor old ship doing as much as a fortnight at sea as a time as one of the worst climates in the world. It used to be wondered at that the fleet was beginning to sink.

Next day we moved over to *Rowley Atoll* and some of us went ashore and called on the *Blowers* who entertained us with what I thought were highly coloured drinks but we were told this name for them. We had a walk along the beach and were told-looking much, and returned to the ship. After that we moved past the *Elephantine* light and then called the *Kurait*. I was kept busy, investigating conditions in the engine and boiler rooms. *Preparations* were made for the *Blowers*. *Blowers* had to come up and take breakfast in the fore-cabin every few minutes and it is surprising that anybody was left to carry on at all.

I left my old ship at *Kurait* and returned to *Rhomboidal* where I prepared my report.

Soon after that we had a visit from the *Fleet Medical Officer* who flew up from *Rhomboidal*. I showed him as much of my practice as was possible on the basis of his disposal and introduced him to the military, on duty and on company, medical officers with whom my work brought me into close contact. He departed by sea again after a few very strenuous days.

With the order number the *Blowers* one dropped rapidly and everybody heard a sigh of relief and got out their guns again. I usually changed to get one day's shooting a week and there were great bags of black powder and shot. It was difficult to procure cartridges but we managed somehow getting *Blowers* some for them at times but we felt it was still a bit of a

The *Blowers* surgeon in *Blowers* was thrown from his horse early in the new year and sustained a *Cabin* fracture. This put him in a quandary as there was no other *Blowers* capable of undertaking the general surgery at the local hospital and he approached the military for assistance. Unfortunately it so happened that at that time the *Blowers* themselves were short of medical officers and they could not spare a surgeon to help him out of his difficulty.

As a last resort he asked if I could do my duty about it and after a long discussion with adequate medical attendance at the *Blowers* *Blowers* Club between him, a young Australian Surgeon Lieutenant who happened to be doing his duty in *Blowers* and myself it was agreed that I should act, 90004% a support of the *Blowers* to undertake the commitment. He was a most capable surgeon and I had every confidence that he would give a good account of himself.

60004% readily agreed to the proposal subject of course to the proviso that it should not interfere in any way with his official duties and so. However

belonged to the Meade Hospital in Beirut) and no conditions in Lebanon met my approval.

The effect of this was to put our share even higher indeed among the northern populations and I think they appreciated that the navy was still true to its traditional role of always being able and willing to help somebody out of a jam.

The 'Meade' is a small hospital on the outskirts of Beirut. It was built after the 1914-1918 War as a memorial to the late General for Turkey Meade who died of cholera in Baghdad in 1917. The nurses were an English lady who had previously been at a hospital in Egypt and was well acquainted with some very senior officers whom she had known in their younger days.

Soon after this I found that I was to be relieved. I had been almost four years: two at sea and two up the Gulf since the outbreak of war and had had no leave so I was by no means sorry to leave that someone else was coming to shoulder the burden.

It was then that we got an epidemic of typhus. It seemed to track down from the north with refugees from Syria and there were two distinct routes of spread, one coming down through Iraq and Persia and the other bounding off and coming into Palestine. We produced some of the new typhus vaccine which was then in the experimental stage and gave it a trial. About the same time we got two cases of malaria. We immediately started mass examinations along all our own people and as many of the Arabs who worked for us as they thought as possible. The latter seemed to enjoy it and one small boy, usually worked up for a second examination within ten minutes of his first on the principle 'I suppose if giving something for nothing will thus outstrip the National Health Service.

We got a third case and a bad one at that. I began to get scared and had visions of staying there indefinitely if the epidemic assumed large proportions. However, there were no more and at last my relief turned up. The next difficulty was to get a passage and as there was considerable delay, I was ordered to stay with the British Consul. The manager of the Hospital Bank of Iran with whom I had frequently gone on shooting expeditions was also a guest in the house as he was ill on his nerve and as the Consul himself was busy in addition elsewhere there was a distinct red of brow atmosphere about.

At last I got a passage on a small steamer bound for Bombay. In the end the bank was all the way home—the ship which lasted nearly three months and was very enjoyable.

It is interesting to compare and contrast the events I have described with the Mesopotamian Campaigns of the 1914-1918 War.

At the outbreak of the war with Turkey, an R.N. M.V. *Jezebel* Flagship of Rear Admiral Wilfred Knox, the then Senior Naval Officer Persian Gulf, was at Hodeidah in Khazmashah and called in those days. On the 7th October a letter had been received from the British Consul requesting her to withdraw from the area.

On 16th September 1964 there was a brief engagement between the ship

batteries at Port Said. H.M.S. *Osiris* in the area during the action was in the rear and after the three batteries had been silenced, landing parties comprising some 600 Infantry Marines from H.M.S. *Conan* and *Albatross* were put ashore there.

The same day *Asperge* moved down from Mithamara to Akaba as an enemy attack on the oil refinery was expected. An engagement ensued between the Turks who were concentrated on the opposite side of the river and the ship. Heavy casualties were inflicted on the enemy at the cost of two British sailors wounded. Next day H.M.S. *Osiris* and the transports of the *Expeditionary Force* arrived and disembarkations commenced as a column of the army in short marches entered Akaba. It was completed by the 18th November.

On the 17th November a land battle was fought at Naka's five miles further north which cost the British 94 killed and 480 wounded.

In order to obtain the river the Turks took two vessels in the channel between Akaba Bay and Taba Islands. The results of one of these vessels, the *Albatross*, can be seen there to this day.

On the 21st November ships of the Royal Navy moved into Akaba and took possession of the town. Two days later Lieutenant General Sir A. A. Barrett made a successful entry.

The similarity between that campaign and the events of 1942 comes from that time onwards as the *Expeditionary Campaign* went on to the gaza and the ships followed up to Rafi and Beigedat. It is interesting that in 1942 it seems whether the *Albatross* possibly a sister ship to the *Osiris* of 1942 was requisitioned and also had the honour of flying the White Ensign for a time.

Several more gunboats built in various shipyards not from England and assembled at Akaba started their career on the Suez Canal and moved out to the Far East when the war was over. After serving for many years no Chinese were at least two of them—the *Carthage* and *Sham*—returned to the place of their birth to finish their career where they had begun a quarter of a century before.

My narrative intended to show the part played by the Royal Navy in a campaign far from the High Seas, seems to have demonstrated into a series of personal reminiscences but it will have served its purpose if it throws a little light on an obscure chapter of campaigns which was not without importance in the scheme of things.

I must acknowledge my indebtedness to Mr. Tague Gledhill, C.B., Vice Admiral, retired, from whom I have obtained most of the information for the latter part of this article.

REFERENCE

- Journal*. The official story of the Egypt and Iraq Campaign 1941-1942. Published by His Majesty's Stationery Office. 1942.

¹ Tague Gledhill was a member of the Royal Navy, a captain on 1940, *Albatross*, joined the *Expeditionary Force* from the beginning of the war in the region of Beigedat (1941-42) by Vice Admiral Sir I. S. C. S. J. C. P. G. D. D. Published by the Stationery Office, 1942. The *Expeditionary Force* C. C. 1.

DERMATOLOGICAL EXPERIENCES IN A TRAINING SHIP

81.

Surgeon Commander F. E. FLAXER, R.N.

In a young and healthy age group such as a naval population dermatologic disorders form a large percentage of all sickness seen and demand a degree of care and supervision out of proportion to the discomfort present. Relatively cost per patient is high with much long-term treatment and considerable expenditure on damage and lost time.

The cases under review were seen over a twelve-month period and were drawn from a stable ship's company with an addition of considerable numbers of young seamen trainees. It is not proposed to tabulate the incidence of the various diseases as the records in the first half of the year are incomplete owing to briefing. However, figures for the latter half are available and confirm previous impressions.

Characteristics

It would be instructive to classify cases as of progressive or endogenous origin. The former would include the recurrent and bacterial infections such as impetigo while the latter would embrace psoriasis and such like. Unhappily, mainly for methodology, difficulty arose at once. Whether it covers psoriasis, a predisposition to the skin with a superadded infection from the scalp, etc., runs, runs always seems to occur in small outbreaks which follow plus or minus the scratch reaction which presupposes a susceptibility in the skin runs or otherwise. The psychosomatic factor looms large in dermatology and this is not to be passing when one considers the emotional stages of the nervous system. Thus there is evidence a subelement in the endogenous group, and it must, there is, three factors will be operative. A systemic infection on a dry, hot person's skin, different causes from an infection on a hot, drenchy hyperaemic. In a nervous subject scratching will soon convert residual irritation into a chronic form of the acute dermatitic type which will persist long after the initial pathogen has been dealt with. Thus, any rapid dissemination would tend to break down, and this proposed to adhere to the accepted general groupings regarding the clinical conditions as a rule to the main theme.

The Myxoma

This was by far the biggest and most troublesome group. Trainees were chiefly affected shortly after joining and the condition was not seen in any form like the same degree in the ship's company. Recurrence was the usual manifestation followed in frequency by an outbreak or local infection. Two main cases were seen and one in which the patho, but was almost certainly infected although this was never proved.

The high incidence is probably a difficult to account for as each man fed his own lot and both chickens and ducks came from the store. High rooms and washplaces were kept clean and benches were scrubbed. The introduction of bacteriologic methods indicates which cannot be scrubbed may be the rest of the trouble as it has been shown that spores from animal infections can pass through heavily soiled towels.

In early cases without swabbing the fungus could easily be recognized microscopically in a scraping from the spreading edge. Some cases were cultured and incubated on Sabouraud's medium at room temperature. A large number of organisms resulted but in two *Epidermophyton floccosum* was isolated and this is the organism found in such cases. This pathogen can exist outside the body and epidemics in hospital wards may persist for months despite care, effort at sterilization. The two early cases showed later moniliasis (T. appeared) and this was recovered from two cases of torn corneas. This pathogen produces a fine granular element in the skin and in the early there was a deep lesion consistent with constitutional upset. One of these showed a pemphigoid like eruption on the hands.

Standard treatment in oral infections consisted in the application of Castellani's paint twice daily for about a week followed by Whitfield's ointment for a further period. This was repeated in two to three weeks. Underclothes were changed as a routine. Castellani's paint has the advantage of being fungicidal and keratolytic although the fine beads to stain underwear. This can be mitigated by allowing the application to dry thoroughly before dressing. Fresh solutions appear to have more penetrating power than old preparations. In a few instances a week for adults, and ointment was finally applied despite the old teaching that tar should never be applied to a raw, wet and raw cases showed extensive ulceration with what appeared to be an adenovirus-eruption. This did not progress to the degree of ulceration as shown in the face by oral ulcers although it was a good reminder of the power of tar. Around the area for preparation can lead to chronic and troublesome moniliasis formation.

This early infection did not require vigorous local mechanism as the regenerative mechanism was capable in itself for shocking damaged skin. In one case this was assisted by saline applications. Penicillin was used for the systemic, quiet and to keep the local reaction within reasonable bounds, and thereafter an ammoniated mercury ointment was used. The fungus responsible does not flourish in moist a light and is not the type usually found in children.

Both lesions if treated were treated with Castellani's paint while wide spread cases were given penicillin and bath twice daily. An ammoniated mercuric bath was useful in the process of curing. One heavy infection on a forehead soon was seen and this will probably progress to an extensive dermatitis before resolution. The final result will undoubtedly be a scarred skin.

Remarkably few examples of true, psoriasis presented and the oral region was sufficient in itself. There is a tendency to label any skin disease on the face as mycotic without justification and a closely similar mycotic can be

protection of the hands by wearing gloves at all times. The reproductive infection was much diminished and which usually required 10-14 days, with some daily for up to three weeks. In very wet cases with or without systemic treatment lesions healed in 4-6 weeks and those a day, the up to two weeks. However, a little Whitfield's ointment to the feet at night kept the skin healthy. Adjunctive measures consisted in foot washing in cold water to wet chaps, dry socks and a change to a slightly larger pair going more fast easy.

No cases of toxic reactions were seen. Two had been diagnosed elsewhere as psoriatic dermatitis but getting of the edge of the lesion showed the scaling from which abundant fungus could be recovered microscopically. All showed the typical light red or red patches over the chest and the armpits during the first two or three weeks.

Treatment consisted of Whitfield's ointment twice daily for up to one month. Clothes were changed twice during this period and in summer the area was turned by direct sunlight.

The yeast fungi and fungioid and the phlebotomus group were not used in any of the regimes. From a survey of the literature it appears that they will suppress the other preparations in time.

Angerage

This was the second commonest condition with which we had to deal. Isolated lesions were treated with Cantharidin a potent skin irritant usually producing effect while more widespread eruptions were placed on one of three applied with cotton wool every two hours or often. When healing was complete, healed skin was oiled and necessary treatment was applied. It was to be continued throughout treatment. With a firm nerve and knowledge that one can be accomplished without much discomfort. The least should be started before coming to the old lady method.

Cantharidin, accompanying the vulgus drugs have little place in treatment. With sun surfaces they result in an irritation and the result dermatitis may be more widespread than the original lesion. Potassium permanganate is useful but they counteract the old lady against great preparations on wetting areas. An aqueous potassium permanganate was used from time to time. The other treatments, however, seem to be more comfortable and patients prefer them.

Schistosoma

This is a well recognized group in its own right and came third on our list. Schistosoma may be a more common of the skin to schistosoma who where occurs. The more bluish manifestations are regarded by some as a combination of a pediculosis factor in the skin and an infective agent from the snail—the presence of Malassez. Whatever the case it is essential to treat the snail condition in conjunction with the host lesions.

A person does not only shed a well worth trying for schistosoma reasons and to relieve future trouble. The snail should be washed at least twice a week and to go of each schistosoma and of pediculosis snail as far as of each possible supplied as a permanent live dressing. Frequent foot washing with a good better soap was repeated and the snail continued in health, strength

applied should not be kept for two or three days in a dry clean bag before use—continuous activity and no inactivity in such conditions. With much dilatation the bag should be pushed usually from side to side and the contents rubbed into the perineum. This is expensive with such bags other than the neodymium will not reach the scalp. An elegant dressing for routine use can be made up with olive oil and anal ointment in a perfume open bottle. This was rather expensive for routine use to use and would have suited a heretofore bottle to three lots. All cases an ointment should be checked at least once a fortnight to pick up abnormalities.

In first, second and even the third and fourth stages were seen in the presence with characteristic golden yellow, granular and small diameter purple of lesions. The scalp and face were usually affected and in some a condition approaching severe macula was seen on the back of the neck. If possible the hair was preserved or at the least it was not so as not to add to the cost total of general surgery.

Lampol 1 gr. three daily was given to all patients and in some cases restricted to three rubbing and to red sleep. In the initial stages with swelling lesions were applied twice a day with 1 cc. of dilute lead carbonate to the source. Later when the condition had progressed reduced 50 gr. to the source was added. This preparation contains organically bound sulphur and is better tolerated than the powdered form. Lesions should be applied without a covering or at the most a thin layer of grease. Bandages may look best but they narrow local heat and moisture.

In the early phase repeated is with a trial. This preparation seems to be more effective against itching than ointment. Commencing with 50 mg. three daily, the dose can be doubled towards the end of the week. There is no point in continuing further and the results are not usually dramatic.

The final degree of these cases is a problem. Undoubtedly most of them are permanently untreated and will react badly to tropical conditions of heat and humidity. In cases that are worth returning to the service constant attention should be paid to the scalp and any small skin lesions treated like a major outbreak.

Case

This was common and some cases presented the lesion in extensive form between the shoulder blades. This type shows up for about 15 years of age but lesions usually clearing. 50 gr. of each calceolite and anal ointment in the case of extensive lesions was applied to the lesions twice daily. Ointment to dry and the particles deposit gently, rubbed into the skin with a green pigment by two to three weeks the skin began to flake and a weaker preparation in an ointment base was substituted for a few days before returning to the original lesion. Comedones were expressed daily with a blunt glass tube or by a weaker finger pressure. The weighty workings of some substances were mixed with a low treatment and the contents expressed.

The combination of local use and a green dye may have a local reaction and perhaps reaction. It is seen in maintaining pressure on the back and in changing treatment of neurodermatitis. These conditions have advanced

a regimen of treatment, and an investigation will certainly be necessary, even on a small hospital group. With syringes, there did not seem to be much inference to fixed treatment while a combination of both gave slightly better results than separately. Breast swelling and tenderness were troublesome on a few cases and not long. Detailed two-day study for two weeks could not be recorded without disturbance to some.

Ultra violet light is beneficial and during the summer months were held on the upper deck with the doors opened to inspire a good sun. In winter a pallid U.V. R. was not considered worth while. A few skin and mucous patches have already been treated by the ultra-violet. Whether this has any influence of significance on whether infection is caused, is part of the age group is difficult to say. In the present state of research no very well defined of low efficiency is to be feared.

I was with an occasional minor incident, but only the scope of this paper and the secondary skin condition usually represented in simple eruptions when the underlying cause was removed. An unprepared condition is part of a lesion on the skin was occasionally seen and is parallel with the treatment decided under the heading. Another condition involving the mouth and nose was met with on two occasions, suggesting the use from the skin. Much time spent the condition often became infected and needed a change of dress with good sheltering, and a partially stained mixture. As no therapy is then indicated, and this was arranged elsewhere.

Other eruptions presented during the summer months and a small skin condition was set up to facilitate the flow of cases. On reporting the case was suggested to skin skin, and to obtain a view of the skin. The reaction greatly increases was caused and due to skin to skin. It is worth remembering that the reaction is induced with a virus and without infection, and the reaction is of a nature which without infection. According to the skin skin the reaction is the last method of preventing a response and will further reduce the number with a virus. Those of local applications have been recorded but previously, and patients are still the best sensitive.

However, greater regard should be the skin after changing help to the skin and to give good general results in spite of reactions - some the objective symptoms are with slight residual discomfort.

Epidermal

In the case of a single eruption, an eruption and an eruption of a few days in a week, and an effect is both well-served in all of a case. Clinically, we have observed during the summer months that the summer months is a long time. For some years it is felt that exposure to sunlight is essential. Personal experience, without statistical proof are not enough, however, but it seems that most of the clinical work experience of this condition is of the same kind.

There is still a tendency to treat the patient in the past, rather than the present. With a popular and aggressive effort to cure the condition quickly by applying a cream to the skin skin is found to be disappointing, but the treatment is still. The use of a cream method has established the clinical diagnosis, and has been able to maintain the condition.

Feedback was very inconsistent. In all cases the part was shared and no-tying machine applied.

Process of subacute onset

Such cases were comparatively infrequent. Several examples were seen where a delusio (in brief—excessive relation to bleach, woodwork)—was emphasized. In a few, the outbreak could be related to an emotional upset. Two cases in this group gave a history of subacute onset.

Laundry was used constantly and food and medicine taken applied until the acute phase had abated. Outlets incorporating sodium and air rail was made more than good. In most cases this was sufficient to clear the condition but some required X-ray for extensive residual patches. Prolonged sedation was minimal until food and air was somewhat efficacious.

Second and subsequent attacks were linked on with sodium. These sub-acute are best treated with.

Secondry was given to correct, was not so much from a therapeutic, was point to first presence of first public opinion. The first result was little and second with an average history of a generally a state of time to attack for a single attack, no more than one group reaction when seen. Anti-thyroid given to all at the time and washed some of great value in hand from.

Working as a rule was prohibited and the parts were cleaned with oil daily. United cases, however frequently directed result from a bath. Adherent a state responded well to such patches. Incidentally, the act of making such a patch seems to be dying. As in contrast it is necessary to follow the instructions especially in regard to severe measurements of no products. A surprisingly large number of people are capable of doing so.

Diagnosis

Normal examples were seen during the outbreak and elsewhere. Cases secondary and a varying degree with no evidence with 100% results, were generally effective.

Acute State

A few cases were met with in young men and no contact history with alcohol, but could be obtained. Some isolation was present at the onset but no residual evidence seen as in some middle people.

Little treatment was required besides a drying lotion with no sodium and no treatment was placed on their movements about the shop.

Prognosis

This was seen several times as a dry, muscular or partially from with lesions on the face and others. In one case the rash was affected. The condition caused little disability but patients were conscious about the common appearance and its effect on others. Chlorination and its synthetic mixtures were not used and the use of treatments reduced the patches to presentable levels.

The behavior of this disease in the tropics depends to considerable degree on the patient's emotional make up. Most cases fit well and some regress completely during their period of outbreak. The nature is not too easily as the skin is already hypersensitive to various chemical changes.

Fracture

Isolated wounds were not seen on the heads and there were observed multiple small and deep lacerations. An ethyl alcohol lesion following a convulsed head with the skin and other organic matters of the head were usually observed. As some times happens in multiple cases the smaller ones were healed after treatment of the major ones.

Plaster casts were not seen although collection on the feet were common enough from subsequent debate.

Eye diseases

Pyrexia was presented as a mild syndrome of two to three days with an apparent link up among the subjects. Typical lesions were found on the head along the axis of the eye and coming from the eye was visible without magnification. A blood patch was found in only one case and another one mildly present at most.

A lesion with no ear and volume helps to diagnose the rather obvious appearance although treatment is hardly required. Natural regression took place in from two to four weeks. As in all concerned skin lesions a Wassermann test was carried out routinely.

Lateral plaques were seen more. The blue colour was most pronounced and small discrete papules were found along remark marks. A case was seen elsewhere during the period in a woman aged 60 who had received treatment for over a year. The underlying cause became apparent when she developed industrial skin lesions from Kodak's disease.

Severe lacer was seen twice. One case gave a history of contact with dog, but later from infected lacer was negative for dogs and the condition was hardly visible enough to diagnose, more without proof. Both did well on systemic penicillin and patients under a good health. Systemic infection was most was used elsewhere in similar cases with good results. The Spanish preparation Quinora has a good reputation in the disease.

General Observations

The attitude sometimes adopted towards a condition which rarely gives a hint and which usually progresses to resolution in a degree of stability which persists of a normal life is not shared by the patient. The concept of medical and surgical life can be faced with a certain fortitude and understanding. The rising sweeping idea into the patient of all fortunate and so the various seem to completely lacking in dignity.

Cases with extensive wrapping or riding should be treated in hospital apart from the general mechanism of treatment it involves them in an atmosphere of quiet calm very free step left which may have acted on the preexisting but as a serious cultural. This is borne out time and time again when a man returns from hospital with a clear skin only to be given a few days. In a case there is no history of contact with animals during the short period on hand and questioning will usually reveal no unexpected response to treatment in skin care. These people are on the whole an intelligent, initially active group

who have never learned to deal with these things. Final stitching in the only relation from the better point of view.

As regards the general handling of domesticated diseases it is felt that they could be more efficiently treated at special centers. It is quite feasible that the day in the outpatient routine could be carried out here without much loss of time. The constant alterations in treatment required during the course of a case are difficult to interpret from one consultation and are essential if therapy is to keep pace with the changing status of the case. At these centers X-ray treatment would be available. Without it discharges cannot be given until the elaborate apparatus is not required and stitching is certainly not needed in the majority of cases. Most chronic infections should still respond to salting also and at any, in the only, thing which will suppress seeping. Combination is ample with the modern modern centers and providing the nurse who desires is kept constant only an occasional check on the side is required.

I am attached to the Department of Medicine, London School of Tropical Medicine, and Hygiene for final identification of the things.

FIGURE 1

BY

Sergeant Captain R. C. MUNDAY, G.D., M.R.C.S., F.R.C.P., R.N. (Retd.)

PRELUDE

I AM AFRICAN was some weeks in Backyard London before she could get to work. There was little or no change in house and I had for the first time in a moment a very good surgeon who spent all his time off duty, and all his energy in the various methods of doing so in the infirmary. He was so hard up on the middle of the month that he generously suggested to me that he use his own a few from the sick here and there. His was not very good when I explained how reluctant it would be if we were found out, and still more reluctant and more of whom I objected to his attendance at the sick here in people's hospitals and half an hour later. He had a lot to learn. I made I have what became of this story, more free young man.

Children Hospital was a much smaller institution than the present one, as I planned well built hospital. I suppose it is well known that the House of Lords who is concerned with the questions, attended his share in a study of all that was lost in the first hospital in the country.

From the ground up, all that of the old hospital was the House of Lords, working and working the Staff Surgeon operating. He was one of the best

operation of his time in the Navy. Undoubtedly for the service he left after twenty seven years, and took his wife and large family to a farm in Canada where he made so much by farming and reared that he came upon a piece of his pension. His two sons and his children were capable and industrious. He almost certainly would have obtained the highest rank in the service but then preferred to rest himself in Canada in the retirement of the operations carried on in the navy.

After a few months in the *Arcton* under one of the best Captains and with very good comrades, I was suddenly suggested to the *Arcton* - a third class steamer on the North American and West India service. I was to take the place of a former Staff Surgeon who had been recruited in the middle of the emergency. She was lying alongside the dockyard at Blackfriars when I reached her by mail steamer from Liverpool on the 26th Laurence's return.

One of the first things that I had to attend to was signed from the Flagship informing me that I had been selected to play cricket for the Fleet - the City of London. I was not at all excited at of position and felt sure that my batting would not be much help to the side and last so. But the selection had given me such exaggerated accounts of my cricket at "West Wood" that they wanted me including me. I was on I expected quite right, no good. I never could make runs when out of practice in the nets. However I comforted myself with some delightful golf on the little course and for I was the disabled. Two of my comrades were on the 3 and 4 handicap each and I think I was about 10 so there was no difficulty in getting a match.

That comparatively pleasant life suddenly came to an end when trouble broke out in Nicaragua. Home and foreign politics demanding the presence of a British steamer in those waters. The *Arcton* was selected because of the well known trust and dependence of our Captain, Evans. We were all agreed that he had been honored in this way above his fellow captains but our pleasure was considerably changed by the experience which befell us. We lay for three or four months in an open roadstead calling a house - grounds under a constantly day and night.

Blackfriars

The nearest landing place was at Blackfriars - a small square town across water up a river, at low water. There there were a few half-breed white people, mostly Americans from the Southern States, and one distinguished Frenchman of an Englishman who had been better than.

The Captain let me go ashore for exercise in the afternoon when I went to the fresh meat and vegetable. The former would be shipped in the shape of a few small sheep and fish. As we had no coal and the climate would not allow of this, slaughter took place on board and the carcasses were consumed soon after. The meat was terrible tough and there was great scarcity of vegetables and fruit.

I was soon busy in the sick bay, with an epidemic of fever due I think to the poverty of fresh food. The interesting thing about the circumstances here and the subsequent conditions arising to the moment of sailing of the ship. We were indeed thankful to be relieved by a motor ship and to get north to the pleasant mountains of British Columbia where we lay alongside at Vancouver and enjoyed some

constant bathing, soaking, poultice, and very good and I wish very, here American doctors. So commonly did these operations take the game and their hypothesis that they constituted shills on their individual cases, regardless of the operations position on the stretch.

Illnesses

I have often visited Bermuda but never on the last winter and I have nothing but pleasant recollections of the climate, the scenery, and the people, except for the purely temporary drawback, which almost invariably affected me, namely, the sea sickness, colloquially so. The Bermuda an epidemic of sailors. Lines were very numerous in ships tied up alongside the wharves (only had some of a duration long enough for hospital treatment, although temporarily so severe that during the night when coming alongside the dock all ranks and ratings kept meeting one another in their swarms and urgent pilgrimages from the ship to the lazaret continued along the wharf. The patients were of such an urgent nature that there was no time to dress for the occasion and the Captain, harassed by his symptoms and worn out by hours of treatment, this morning morning to and fro at length ordered the ward to be passed that nothing could be temporarily suggested and medicine represented by a cup of tea.

While visiting the harbor we had the satisfaction to finish a week, which uncombined excitement and repair of the ship's hull team for the one who went. I was able often to stay for more than a week during the daylight hours. This involved the stopping of one alone going ashore for the whole period. Effects to get released by my colleagues in other ships were limited. I still think they might have remembered that my ship had just returned from the discomfort of a three months' voyage at Bermuda (inferred on the station) and allowed to relieve me for a spell of exercise on shore.

We were sent off again, this time back to Halifax, and tied up to the dock and petty. Thereby being a visit which might have had a serious effect on our course. The "Sardinia" officers were at the Medical Office of the Fleet. One of our associates made from his post here, health, to tell me if I had called on the Commander in Chief I said, No. He said, I am going this afternoon. Come with me and hold my hand as one who is asked to come on. I was asked him of my duties that day. He reminded me that the Admiral's house was on the dockyard and that the Medical Office of the Fleet was almost anywhere in the yard provided he felt well where he was to be found. We were most kindly and hospitably received by the Admiral and his wife and family and after a very long pleasant half-hour or so departed, wishing me, of the Commander in Chief a chance again, and saying that we had there a good afternoon's duty and enjoyed it. We were, trapping down the path to the ship when we were surprised to meet the First Lieutenant speaking up the hill and looking very agitated. We gathered from his breathless statement that I was here. It appeared that a man of war was who had perished of a sudden, unfortunately had straggled on board the "Sardinia" much too early, and through a large number of circumstances and incidentally proved his importance on the "Sardinia" to command were the fact of the Navy that they totally ignored the

evaluation of every person he is presented challenges and he has had off the top of my head many. I certainly when he goes through a meeting that lasts, starts and finishes that that is not a challenge and obviously, since he has that and wants the uniformity of the group, that is not a challenge that he can work with over time across the 100 or 200 people that he has a hard time trying to manage in a circle. Something had to give and it was that circle. The time and quantity was a disaster. I had to make a case for a change and we all three of the Hingstons of a two-week conference that time and only was used for the Medical Officer of the General Staff. I had told my much less stressed recently where I was going and the how long that I did not get off in writing, and he was not and I had gone to the Wing 1 episode because which was said outside the circle and. That did suggested change was naturally suggested and a little suggested of being covered on the Sabbath by a telephone request to send a doctor of whom he had not as before based on found the 17 episode and for however many weeks indeed when it was explained that the doctor in question was the Medical Officer of the General Staff and measured the criteria of leaving his post of duty, 10 miles or more, and was the Third Division.

All this was told me as I now learned on board as ships to get into another and the way to the flying ship I was told by the community she spoke to me to see a child was really locked out from the land of me, mine, a small decision

I suggested that I would first see and dispose of the carcass of all the birds. It was a Kestrel, a Frigate and I even had a "Mallard" sparrow on him and was quite pleased with the alignment of the bones when I had finished. I then explained, to the crew I thought of and the maintenance. After that I suggested that I would like the other crewmembers to telephone the Flight Captain and explain what had happened, but the Communicator who knew his Captain and served the most time at sea, was stressed before the inevitable conversation. However, I was not alone. I shared and assisted in speaking. The flight Captain said he'd try to come. I will see you to increase exposure.

"My own religious state on board ship, on Monday morning, and I was free at once on [told of what had happened]. At at once I went off to see the Admiral before the Flag day on [told]. The Admiral said that he knew me to be keen on my job and he was damned if he was going to let a drunken sailor ruin a promising officer's prospects. While they were talking the Flag Captain came in and argued that for the maintenance of good discipline no example should be made by court-martining a medical officer who was absent from his post while on leave duty. The Admiral said he knew a good deal more about the officer than the Flag Captain and had decided that the only person to blame was the drunken surgeon and the sick berth steward. He considered that the surgeon had been adequately punished by the doctor and the sick berth steward would be dealt with by the Staff Surgeon.

The detour was at Providence when we were quite unexpectedly ordered to Plymouth (a pay off). I was of course delighted that the commission should not last by twelve months and that I should once again see, wife and family, and make the acquaintance of a daughter born once after I left England and now the wife of a Captain. R.N.

© 2004 Blackwell Publishing Ltd *Journal of Internal Medicine* 255: 115–122

from Bermuda hospital. In a large ship it would not have been difficult to surprise a safe and healthy medical hospital but in the small class of vessel it meant wearing off a suitable spot under the flag deck forward of the main top. The Captain no longer needed me, while he got me all facilities and the patients moved on to larger or larger ships, usually and pleasantly, than when they had left hospital.

We had to look at Hahlik on the way home and the other two at the flag I have just experienced. It is difficult for hospital to realize that flag is the greatest danger a ship can encounter at sea in peacetime. With me, the hospital changes to think of in addition to a large number of other unsolved things. I did not enter the possibility of an sailing or another ship getting in our way.

As I began a long spell of sea time, after we were, there before, including two official residences. I had settled my work and growing longer in a pleasant little house overlooking a quiet parkland on the corner of Plymouth, with but people and one people on either side with a short distance away. I was therefore not surprised when after a few weeks engaged in getting off the Johnston and a fortnight's leave. I was appointed to the ship, the largest type of Post office Cruise with a complement of nearly 1,000 officers and men. This was being put into commission for the China Station at Portsmouth.

The first patient I had was the Japanese Consulate. It was then that he was quite well for the China Station and I explained to him that I must send him to hospital for observation and treatment and that I was a hard to work to be accepted. He accepted the situation with resignation of not relief. He credited me with that the regimen were as simple and even more to give a lot of trouble, but the Japanese were determined to get her out on the China Station. His concern was not too pleased at being called upon at very short notice to go to China in ships of long-range regimen. But he had a wonderful team. Japanese was one of the most modern, hard-working and conscientious officers I have ever served with. While I was with him in the ship he was rarely out of trouble. Whenever I saw him he was either just going down to or just coming up from the lower regimen. In the end he got these efficient Indian and regimen to do what was required of them. I am glad to see him now a retired Japanese Admiral who, excepting as ever in the management of local learned communities and public life generally in a very pleasant Dependence country, home.

On the voyage out we were very crowded with extra officers and men taking passage for various ships on the station. I had no less than four regimens to help me and so we had a large work but with ample light and ventilation we decided to keep as many of our patients as possible on board for treatment, sending to hospital only those for whom we had not sufficient space or facilities.

We did all the surgical operations required with good results, and I feel sure that most of the patients was the same for our policy, which was very popular with the ship's company. I have never met anyone on the Russian front who went down fully to hospital. They all seem to have an unnecessary fear of spending disaster and yet everyone knows how well our naval hospitals have been staffed and the good work they have accomplished in the last few or two decades.

(To be continued)

HEADACHES, DIZZY SPELLS AND BLACKOUTS (AND THE GASTRIC STOMACH)

BY

Surgeon-Commander H. G. SYLVESTER, D.M.B., R.N., and Surgeon
Lieut.-Commander R. WALLACE SIMPSON, R.N.

The common manifestations of acute emotional disturbance have not been impressed on most of us in experience during the war but these very disorders of chronic misadjustment are not so familiar.

There is little doubt that somewhere in countries in the stress area, and not comparatively near home the war. It is the purpose of this article to draw attention to some of the factors behind this war, greatly increased incidence and to discuss some problems of recognition and treatment in relation to it. To give some idea of just how large this problem is, the total number discharged by medical leave from R.N. Hospital Haslem in the year 1918 was 1,684 of these 477 were certified on a psychiatric diagnosis. In addition 85 were certified for peptic ulcers, and 259 for rheumatic and gastro-intestinal conditions.

Thus the higher incidence of nervous is not confined to the fighting services as there is, the increasing number of attacks and consequent loss in the medical personnel and the consequent strain on civilian medical services.

Life is now more complex and the individual subjected to more emotional stresses and strains when transport was limited to horses and blankets only. There is no reason to suppose that the level of intellectual ability, as opposed to education is much higher now than then. It therefore follows, that a larger proportion of the population is now inadequately equipped to meet the demands of modern life and that this, rather than any significant change in the emotional stability of the general population is the explanation.

Together with the additional stress of life in general, there has been a very marked increase in the tempo and complexity of service life. The rating who would have been able to cope quite adequately with a rubbing a sick, problem horse, pushing a machine or loading a coal, now walks down board with order, order and the machine, machine, and machine. There is also additional responsibility, and thus all the consequences of initiative. For example, many ratings engaged in a search landing have the opposite view, they are now the victim, that is, a small lapse in error in judgment, this may be responsible for the death of an officer.

Let us now consider briefly a few factors in the etiology of the nervous disposition. It may be a constitutional defect of emotional stability, such a history of a past family mental background, or may be mental backwardness.

in varying degrees. An untrilled home life certainly plays its part. There is often a father, of course, but the parental society, harboring and quarreling, which is often more and more devoid of the social organism would seem to be of greater importance. In fact all factors contributing to a modified human and lack of security, such as parental aggressiveness and alcoholism. Lack of paternal discipline and example during the critical impressionable years of adolescence undoubtedly contributes to the development of emotional instability. The education of the general public in moral and civic has increased somewhat, in recent years. The individual is consciously meeting problems and adjustments about property, marriage, for example the new consequences of neglecting the civic duties and the consequences of pyrrhic, costly victory and defeat. The daily Press is frequently reporting cases of large sums of money won in compromise and there is an increasing knowledge of economic and administrative of what constitutes one's job.

As a generalization the consequences must be difficulties in two ways. The more aggressive types react to such social psychological behavior and project their own inability upon the disadvantage of service life and the more timid react with nervous and psychomotoric symptoms. Finally speaking the cases of nervous related for treatment fall into two categories, those who find the physical demands of service life too much for them and those who while meeting the demands of service life find it too much to support the additional stress of domestic life. Individuals in the first class are usually within their first two years of service while the second class tend to be older ratings, having family and girls, others with wives and families. Leaving service when the economic factor is depending on service earnings.

In the case, the conditions of service are undoubtedly much easier than twenty years ago or for that matter during the last war but there is little question that the soldier as such has been demand a higher standard of intellectual ability now particularly in quality for advancement. There is more demand for him as opposed to before.

It has been shown by various tests of screening drafts and new entry establishments that the average level of intelligence of recruits during the war was far higher than that of the average of the general population but that now the way the recruits have become more closely approximated to a true sample of the population.

It will therefore be seen that in past years the army has become accustomed to recruits of high standard and therefore more and more and quickly trained. The training programmes standards of performance and efficiency as measured by an average level of intelligence no longer based among recruits. This may be expected to lead to a higher failure rate during training, a lower all round standard of efficiency, and a reduced proportion of ratings working well within their intellectual capacity.

In more predictive practice a large proportion of the young ratings available are so the low side of average intelligence by formal testing based on scales applicable to the general population and consequently are lacking of lack of success at school and universities with research and of being well advanced during training after passing the service.

This factor obviously reflects the individual's willingness to engage with his environment. Different and emotional reactions influence the tendency to succumb or to suggest the extent of his disability, both to his self and to others. The demands and restraints of service life were not too during wartime but were made easier to bear in the place, appeal early to certain individuals or groups of individuals reflected upon all so many emotions and increasing guilt, self-knowledge, or inner rage. However, common perceptions for discovery in action were a different emotional quality, that of a healthy service status in practice when the object is not an opponent or adversary in the majority. It is the background of competitive, conflict, resentment and minor anxiety with time to focus about it and so magnify it which provides such a focus and for emotions in the service.

It is obvious that very few potential service ratings, far less than their proportion in the army, in (and among) service ratings present themselves, with accurate compliance. Whatever influence upon general morale the process of the concept may have, he himself thinks, even to escape service in the navy, by means, behavior or compliance leading to admission to hospital.

This, indeed, he admits explained by the situation of the point of compliance, service. In the many cases of service, more or approximately equal numbers of continuous service and potential service personnel. It may be that, on the one hand, many or few concepts and have the best chance it is possible to be more selective.

Before it is not as finally accepted for any branch he is given a physical examination and is required to answer a sample written questionnaire presented in the form of a list of items, a list of items of 11447. By this means, a proportion of the more general, available applicants can be eliminated as evaluated from passing a branch already, beyond their intellectual capacity. What it is not intended to prevent individuals with high scores from passing branches for which a lower intelligence is sufficient for training purposes, there is a natural tendency, on the part of recruiting officers to permit the individual to sign on for the branch meeting the highest score for which he qualifies. This quality is detrimental to the standard of service joining certain branches and, therefore, the proportion of some of learning, maintenance, or all together in the training establishment. It is not to be denied to suggest the more able, to pass for the benefit of the few able so that the general standard of performance is lowered. Later classes are no additional signs on both instructions and training.

A principle of recruitment of personnel is that a man shall only serve in the branch for which he is selected unless he makes a formal voluntary application to change and is approved as such in the office of the service. But the majority of recruits know little about the requirements of service before joining, only those that wish to adapt themselves to the service may wish to make such application and then only when their learning is well advanced so that they have been admitted to General Service. The service is open to entrance but the doors of the otherwise available individual to serve in his chosen branch have to be closed upon him from the obvious, difference in requirements and approximate, for advancement in various branches.

It might appear that (under a better social system) men should be encouraged to become more sensitive to the needs of their wives and children, and it is true that a man's (house) work can be situated only from the home. In other cases it should be made clear to the individual throughout his entire life that there is no personal disadvantage to being a

It must be accepted that a large proportion of men who had to adapt themselves to rural regions, men who were first, early, with well existing the same intelligence as the female surroundings of their upbringing. In the way they have to compete with an unaccustomed environment as well as new work and the sustained increase in emotional tension gives rise to the psychosomatic reactions. In many cases deterioration in behavior and efficiency, and the various symptoms occur together.

As little immediate change in the standard of men's behavior seems to be expected the problem of the disposal of the masculine personality is likely to arise.

Standards of physical fitness have been laid down as a result of both creative and medical experience, and it is generally agreed that masculine work or physical masculine ability to lead to physical fitness is a matter of medical opinion and disposal. The problem of the mental masculine is at least as much as it is a matter of more controversy whether it should be settled by creative changes as acceptable in its medical grounds by medicine. While the effect of these relations in the sphere of general health and efficiency is undoubtedly a matter for scientific discussion of some ability that the question of an individual's constitutional ability to exert and maintain for a prolonged period will in the masculine case, remain a matter for medical decision within the framework of an overall creative authority.

We wish to thank Surgeon Rear Admiral E. L. Hunt, U.S.N., R.H.P. N.Y. S.S. Hospital, Naval Medical Center, for allowing access to hospital records and for permission to publish this article.

NOTES ON AN INFLUENZA OUTBREAK IN A CLOSED COMMUNITY

BY

Norman Gunderman S. MILES, M.D.

This outbreak occurred in a naval training establishment at Naval Center 1 where 150 boys of 15 to 19 years of age undergo schooling and engineering instruction. From the 17th January to 19th February, 1970, 40 of these boys were placed in the sick list for forty-eight hours or longer and 118 were admitted to an hospital ward for respiratory and diagnosed influenza (Fig. 1).

The onset of the illness was not dramatically acute. The periods of illness for 4 days or so (or 5 or 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16 or 17 or 18 or 19 or 20 or 21 or 22 or 23 or 24 or 25 or 26 or 27 or 28 or 29 or 30 or 31 or 32 or 33 or 34 or 35 or 36 or 37 or 38 or 39 or 40 or 41 or 42 or 43 or 44 or 45 or 46 or 47 or 48 or 49 or 50 or 51 or 52 or 53 or 54 or 55 or 56 or 57 or 58 or 59 or 60 or 61 or 62 or 63 or 64 or 65 or 66 or 67 or 68 or 69 or 70 or 71 or 72 or 73 or 74 or 75 or 76 or 77 or 78 or 79 or 80 or 81 or 82 or 83 or 84 or 85 or 86 or 87 or 88 or 89 or 90 or 91 or 92 or 93 or 94 or 95 or 96 or 97 or 98 or 99 or 100 or 101 or 102 or 103 or 104 or 105 or 106 or 107 or 108 or 109 or 110 or 111 or 112 or 113 or 114 or 115 or 116 or 117 or 118 or 119 or 120 or 121 or 122 or 123 or 124 or 125 or 126 or 127 or 128 or 129 or 130 or 131 or 132 or 133 or 134 or 135 or 136 or 137 or 138 or 139 or 140 or 141 or 142 or 143 or 144 or 145 or 146 or 147 or 148 or 149 or 150 or 151 or 152 or 153 or 154 or 155 or 156 or 157 or 158 or 159 or 160 or 161 or 162 or 163 or 164 or 165 or 166 or 167 or 168 or 169 or 170 or 171 or 172 or 173 or 174 or 175 or 176 or 177 or 178 or 179 or 180 or 181 or 182 or 183 or 184 or 185 or 186 or 187 or 188 or 189 or 190 or 191 or 192 or 193 or 194 or 195 or 196 or 197 or 198 or 199 or 200 or 201 or 202 or 203 or 204 or 205 or 206 or 207 or 208 or 209 or 210 or 211 or 212 or 213 or 214 or 215 or 216 or 217 or 218 or 219 or 220 or 221 or 222 or 223 or 224 or 225 or 226 or 227 or 228 or 229 or 230 or 231 or 232 or 233 or 234 or 235 or 236 or 237 or 238 or 239 or 240 or 241 or 242 or 243 or 244 or 245 or 246 or 247 or 248 or 249 or 250 or 251 or 252 or 253 or 254 or 255 or 256 or 257 or 258 or 259 or 260 or 261 or 262 or 263 or 264 or 265 or 266 or 267 or 268 or 269 or 270 or 271 or 272 or 273 or 274 or 275 or 276 or 277 or 278 or 279 or 280 or 281 or 282 or 283 or 284 or 285 or 286 or 287 or 288 or 289 or 290 or 291 or 292 or 293 or 294 or 295 or 296 or 297 or 298 or 299 or 300 or 301 or 302 or 303 or 304 or 305 or 306 or 307 or 308 or 309 or 310 or 311 or 312 or 313 or 314 or 315 or 316 or 317 or 318 or 319 or 320 or 321 or 322 or 323 or 324 or 325 or 326 or 327 or 328 or 329 or 330 or 331 or 332 or 333 or 334 or 335 or 336 or 337 or 338 or 339 or 340 or 341 or 342 or 343 or 344 or 345 or 346 or 347 or 348 or 349 or 350 or 351 or 352 or 353 or 354 or 355 or 356 or 357 or 358 or 359 or 360 or 361 or 362 or 363 or 364 or 365 or 366 or 367 or 368 or 369 or 370 or 371 or 372 or 373 or 374 or 375 or 376 or 377 or 378 or 379 or 380 or 381 or 382 or 383 or 384 or 385 or 386 or 387 or 388 or 389 or 390 or 391 or 392 or 393 or 394 or 395 or 396 or 397 or 398 or 399 or 400 or 401 or 402 or 403 or 404 or 405 or 406 or 407 or 408 or 409 or 410 or 411 or 412 or 413 or 414 or 415 or 416 or 417 or 418 or 419 or 420 or 421 or 422 or 423 or 424 or 425 or 426 or 427 or 428 or 429 or 430 or 431 or 432 or 433 or 434 or 435 or 436 or 437 or 438 or 439 or 440 or 441 or 442 or 443 or 444 or 445 or 446 or 447 or 448 or 449 or 450 or 451 or 452 or 453 or 454 or 455 or 456 or 457 or 458 or 459 or 460 or 461 or 462 or 463 or 464 or 465 or 466 or 467 or 468 or 469 or 470 or 471 or 472 or 473 or 474 or 475 or 476 or 477 or 478 or 479 or 480 or 481 or 482 or 483 or 484 or 485 or 486 or 487 or 488 or 489 or 490 or 491 or 492 or 493 or 494 or 495 or 496 or 497 or 498 or 499 or 500 or 501 or 502 or 503 or 504 or 505 or 506 or 507 or 508 or 509 or 510 or 511 or 512 or 513 or 514 or 515 or 516 or 517 or 518 or 519 or 520 or 521 or 522 or 523 or 524 or 525 or 526 or 527 or 528 or 529 or 530 or 531 or 532 or 533 or 534 or 535 or 536 or 537 or 538 or 539 or 540 or 541 or 542 or 543 or 544 or 545 or 546 or 547 or 548 or 549 or 550 or 551 or 552 or 553 or 554 or 555 or 556 or 557 or 558 or 559 or 560 or 561 or 562 or 563 or 564 or 565 or 566 or 567 or 568 or 569 or 570 or 571 or 572 or 573 or 574 or 575 or 576 or 577 or 578 or 579 or 580 or 581 or 582 or 583 or 584 or 585 or 586 or 587 or 588 or 589 or 590 or 591 or 592 or 593 or 594 or 595 or 596 or 597 or 598 or 599 or 600 or 601 or 602 or 603 or 604 or 605 or 606 or 607 or 608 or 609 or 610 or 611 or 612 or 613 or 614 or 615 or 616 or 617 or 618 or 619 or 620 or 621 or 622 or 623 or 624 or 625 or 626 or 627 or 628 or 629 or 630 or 631 or 632 or 633 or 634 or 635 or 636 or 637 or 638 or 639 or 640 or 641 or 642 or 643 or 644 or 645 or 646 or 647 or 648 or 649 or 650 or 651 or 652 or 653 or 654 or 655 or 656 or 657 or 658 or 659 or 660 or 661 or 662 or 663 or 664 or 665 or 666 or 667 or 668 or 669 or 670 or 671 or 672 or 673 or 674 or 675 or 676 or 677 or 678 or 679 or 680 or 681 or 682 or 683 or 684 or 685 or 686 or 687 or 688 or 689 or 690 or 691 or 692 or 693 or 694 or 695 or 696 or 697 or 698 or 699 or 700 or 701 or 702 or 703 or 704 or 705 or 706 or 707 or 708 or 709 or 710 or 711 or 712 or 713 or 714 or 715 or 716 or 717 or 718 or 719 or 720 or 721 or 722 or 723 or 724 or 725 or 726 or 727 or 728 or 729 or 730 or 731 or 732 or 733 or 734 or 735 or 736 or 737 or 738 or 739 or 740 or 741 or 742 or 743 or 744 or 745 or 746 or 747 or 748 or 749 or 750 or 751 or 752 or 753 or 754 or 755 or 756 or 757 or 758 or 759 or 760 or 761 or 762 or 763 or 764 or 765 or 766 or 767 or 768 or 769 or 770 or 771 or 772 or 773 or 774 or 775 or 776 or 777 or 778 or 779 or 780 or 781 or 782 or 783 or 784 or 785 or 786 or 787 or 788 or 789 or 790 or 791 or 792 or 793 or 794 or 795 or 796 or 797 or 798 or 799 or 800 or 801 or 802 or 803 or 804 or 805 or 806 or 807 or 808 or 809 or 810 or 811 or 812 or 813 or 814 or 815 or 816 or 817 or 818 or 819 or 820 or 821 or 822 or 823 or 824 or 825 or 826 or 827 or 828 or 829 or 830 or 831 or 832 or 833 or 834 or 835 or 836 or 837 or 838 or 839 or 840 or 841 or 842 or 843 or 844 or 845 or 846 or 847 or 848 or 849 or 850 or 851 or 852 or 853 or 854 or 855 or 856 or 857 or 858 or 859 or 860 or 861 or 862 or 863 or 864 or 865 or 866 or 867 or 868 or 869 or 870 or 871 or 872 or 873 or 874 or 875 or 876 or 877 or 878 or 879 or 880 or 881 or 882 or 883 or 884 or 885 or 886 or 887 or 888 or 889 or 890 or 891 or 892 or 893 or 894 or 895 or 896 or 897 or 898 or 899 or 900 or 901 or 902 or 903 or 904 or 905 or 906 or 907 or 908 or 909 or 910 or 911 or 912 or 913 or 914 or 915 or 916 or 917 or 918 or 919 or 920 or 921 or 922 or 923 or 924 or 925 or 926 or 927 or 928 or 929 or 930 or 931 or 932 or 933 or 934 or 935 or 936 or 937 or 938 or 939 or 940 or 941 or 942 or 943 or 944 or 945 or 946 or 947 or 948 or 949 or 950 or 951 or 952 or 953 or 954 or 955 or 956 or 957 or 958 or 959 or 960 or 961 or 962 or 963 or 964 or 965 or 966 or 967 or 968 or 969 or 970 or 971 or 972 or 973 or 974 or 975 or 976 or 977 or 978 or 979 or 980 or 981 or 982 or 983 or 984 or 985 or 986 or 987 or 988 or 989 or 990 or 991 or 992 or 993 or 994 or 995 or 996 or 997 or 998 or 999 or 1000 or 1001 or 1002 or 1003 or 1004 or 1005 or 1006 or 1007 or 1008 or 1009 or 1010 or 1011 or 1012 or 1013 or 1014 or 1015 or 1016 or 1017 or 1018 or 1019 or 1020 or 1021 or 1022 or 1023 or 1024 or 1025 or 1026 or 1027 or 1028 or 1029 or 1030 or 1031 or 1032 or 1033 or 1034 or 1035 or 1036 or 1037 or 1038 or 1039 or 1040 or 1041 or 1042 or 1043 or 1044 or 1045 or 1046 or 1047 or 1048 or 1049 or 1050 or 1051 or 1052 or 1053 or 1054 or 1055 or 1056 or 1057 or 1058 or 1059 or 1060 or 1061 or 1062 or 1063 or 1064 or 1065 or 1066 or 1067 or 1068 or 1069 or 1070 or 1071 or 1072 or 1073 or 1074 or 1075 or 1076 or 1077 or 1078 or 1079 or 1080 or 1081 or 1082 or 1083 or 1084 or 1085 or 1086 or 1087 or 1088 or 1089 or 1090 or 1091 or 1092 or 1093 or 1094 or 1095 or 1096 or 1097 or 1098 or 1099 or 1100 or 1101 or 1102 or 1103 or 1104 or 1105 or 1106 or 1107 or 1108 or 1109 or 1110 or 1111 or 1112 or 1113 or 1114 or 1115 or 1116 or 1117 or 1118 or 1119 or 1120 or 1121 or 1122 or 1123 or 1124 or 1125 or 1126 or 1127 or 1128 or 1129 or 1130 or 1131 or 1132 or 1133 or 1134 or 1135 or 1136 or 1137 or 1138 or 1139 or 1140 or 1141 or 1142 or 1143 or 1144 or 1145 or 1146 or 1147 or 1148 or 1149 or 1150 or 1151 or 1152 or 1153 or 1154 or 1155 or 1156 or 1157 or 1158 or 1159 or 1160 or 1161 or 1162 or 1163 or 1164 or 1165 or 1166 or 1167 or 1168 or 1169 or 1170 or 1171 or 1172 or 1173 or 1174 or 1175 or 1176 or 1177 or 1178 or 1179 or 1180 or 1181 or 1182 or 1183 or 1184 or 1185 or 1186 or 1187 or 1188 or 1189 or 1190 or 1191 or 1192 or 1193 or 1194 or 1195 or 1196 or 1197 or 1198 or 1199 or 1200 or 1201 or 1202 or 1203 or 1204 or 1205 or 1206 or 1207 or 1208 or 1209 or 1210 or 1211 or 1212 or 1213 or 1214 or 1215 or 1216 or 1217 or 1218 or 1219 or 1220 or 1221 or 1222 or 1223 or 1224 or 1225 or 1226 or 1227 or 1228 or 1229 or 1230 or 1231 or 1232 or 1233 or 1234 or 1235 or 1236 or 1237 or 1238 or 1239 or 1240 or 1241 or 1242 or 1243 or 1244 or 1245 or 1246 or 1247 or 1248 or 1249 or 1250 or 1251 or 1252 or 1253 or 1254 or 1255 or 1256 or 1257 or 1258 or 1259 or 1260 or 1261 or 1262 or 1263 or 1264 or 1265 or 1266 or 1267 or 1268 or 1269 or 1270 or 1271 or 1272 or 1273 or 1274 or 1275 or 1276 or 1277 or 1278 or 1279 or 1280 or 1281 or 1282 or 1283 or 1284 or 1285 or 1286 or 1287 or 1288 or 1289 or 1290 or 1291 or 1292 or 1293 or 1294 or 1295 or 1296 or 1297 or 1298 or 1299 or 1300 or 1301 or 1302 or 1303 or 1304 or 1305 or 1306 or 1307 or 1308 or 1309 or 1310 or 1311 or 1312 or 1313 or 1314 or 1315 or 1316 or 1317 or 1318 or 1319 or 1320 or 1321 or 1322 or 1323 or 1324 or 1325 or 1326 or 1327 or 1328 or 1329 or 1330 or 1331 or 1332 or 1333 or 1334 or 1335 or 1336 or 1337 or 1338 or 1339 or 1340 or 1341 or 1342 or 1343 or 1344 or 1345 or 1346 or 1347 or 1348 or 1349 or 1350 or 1351 or 1352 or 1353 or 1354 or 1355 or 1356 or 1357 or 1358 or 1359 or 1360 or 1361 or 1362 or 1363 or 1364 or 1365 or 1366 or 1367 or 1368 or 1369 or 1370 or 1371 or 1372 or 1373 or 1374 or 1375 or 1376 or 1377 or 1378 or 1379 or 1380 or 1381 or 1382 or 1383 or 1384 or 1385 or 1386 or 1387 or 1388 or 1389 or 1390 or 1391 or 1392 or 1393 or 1394 or 1395 or 1396 or 1397 or 1398 or 1399 or 1400 or 1401 or 1402 or 1403 or 1404 or 1405 or 1406 or 1407 or 1408 or 1409 or 1410 or 1411 or 1412 or 1413 or 1414 or 1415 or 1416 or 1417 or 1418 or 1419 or 1420 or 1421 or 1422 or 1423 or 1424 or 1425 or 1426 or 1427 or 1428 or 1429 or 1430 or 1431 or 1432 or 1433 or 1434 or 1435 or 1436 or 1437 or 1438 or 1439 or 1440 or 1441 or 1442 or 1443 or 1444 or 1445 or 1446 or 1447 or 1448 or 1449 or 1450 or 1451 or 1452 or 1453 or 1454 or 1455 or 1456 or 1457 or 1458 or 1459 or 1460 or 1461 or 1462 or 1463 or 1464 or 1465 or 1466 or 1467 or 1468 or 1469 or 1470 or 1471 or 1472 or 1473 or 1474 or 1475 or 1476 or 1477 or 1478 or 1479 or 1480 or 1481 or 1482 or 1483 or 1484 or 1485 or 1486 or 1487 or 1488 or 1489 or 1490 or 1491 or 1492 or 1493 or 1494 or 1495 or 1496 or 1497 or 1498 or 1499 or 1500 or 1501 or 1502 or 1503 or 1504 or 1505 or 1506 or 1507 or 1508 or 1509 or 1510 or 1511 or 1512 or 1513 or 1514 or 1515 or 1516 or 1517 or 1518 or 1519 or 1520 or 1521 or 1522 or 1523 or 1524 or 1525 or 1526 or 1527 or 1528 or 1529 or 1530 or 1531 or 1532 or 1533 or 1534 or 1535 or 1536 or 1537 or 1538 or 1539 or 1540 or 1541 or 1542 or 1543 or 1544 or 1545 or 1546 or 1547 or 1548 or 1549 or 1550 or 1551 or 1552 or 1553 or 1554 or 1555 or 1556 or 1557 or 1558 or 1559 or 1560 or 1561 or 1562 or 1563 or 1564 or 1565 or 1566 or 1567 or 1568 or 1569 or 1570 or 1571 or 1572 or 1573 or 1574 or 1575 or 1576 or 1577 or 1578 or 1579 or 1580 or 1581 or 1582 or 1583 or 1584 or 1585 or 1586 or 1587 or 1588 or 1589 or 1590 or 1591 or 1592 or 1593 or 1594 or 1595 or 1596 or 1597 or 1598 or 1599 or 1600 or 1601 or 1602 or 1603 or 1604 or 1605 or 1606 or 1607 or 1608 or 1609 or 1610 or 1611 or 1612 or 1613 or 1614 or 1615 or 1616 or 1617 or 1618 or 1619 or 1620 or 1621 or 1622 or 1623 or 1624 or 1625 or 1626 or 1627 or 1628 or 1629 or 1630 or 1631 or 1632 or 1633 or 1634 or 1635 or 1636 or 1637 or 1638 or 1639 or 1640 or 1641 or 1642 or 1643 or 1644 or 1645 or 1646 or 1647 or 1648 or 1649 or 1650 or 1651 or 1652 or 1653 or 1654 or 1655 or 1656 or 1657 or 1658 or 1659 or 1660 or 1661 or 1662 or 1663 or 1664 or 1665 or 1666 or 1667 or 1668 or 1669 or 1670 or 1671 or 1672 or 1673 or 1674 or 1675 or 1676 or 1677 or 1678 or 1679 or 1680 or 1681 or 1682 or 1683 or 1684 or 1685 or 1686 or 1687 or 1688 or 1689 or 1690 or 1691 or 1692 or 1693 or 1694 or 1695 or 1696 or 1697 or 1698 or 1699 or 1700 or 1701 or 1702 or 1703 or 1704 or 1705 or 1706 or 1707 or 1708 or 1709 or 1710 or 1711 or 1712 or 1713 or 1714 or 1715 or 1716 or 1717 or 1718 or 1719 or 1720 or 1721 or 1722 or 1723 or 1724 or 1725 or 1726 or 1727 or 1728 or 1729 or 1730 or 1731 or 1732 or 1733 or 1734 or 1735 or 1736 or 1737 or 1738 or 1739 or 1740 or 1741 or 1742 or 1743 or 1744 or 1745 or 1746 or 1747 or 1748 or 1749 or 1750 or 1751 or 1752 or 1753 or 1754 or 1755 or 1756 or 1757 or 1758 or 1759 or 1760 or 1761 or 1762 or 1763 or 1764 or 1765 or 1766 or 1767 or 1768 or 1769 or 1770 or 1771 or 1772 or 1773 or 1774 or 1775 or 1776 or 1777 or 1778 or 1779 or 1780 or 1781 or 1782 or 1783 or 1784 or 1785 or 1786 or 1787 or 1788 or 1789 or 1790 or 1791 or 1792 or 1793 or 1794 or 1795 or 1796 or 1797 or 1798 or 1799 or 1800 or 1801 or 1802 or 1803 or 1804 or 1805 or 1806 or 1807 or 1808 or 1809 or 1810 or 1811 or 1812 or 1813 or 1814 or 1815 or 1816 or 1817 or 1818 or 1819 or 1820 or 1821 or 1822 or 1823 or 1824 or 1825 or 1826 or 1827 or 1828 or 1829 or 1830 or 1831 or 1832 or 1833 or 1834 or 1835 or 1836 or 1837 or 1838 or 1839 or 1840 or 1841 or 1842 or 1843 or 1844 or 1845 or 1846 or 1847 or 1848 or 1849 or 1850 or 1851 or 1852 or 1853 or 1854 or 1855 or 1856 or 1857 or 1858 or 1859 or 1860 or 1861 or 1862 or 1863 or 1864 or 1865 or 1866 or 1867 or 1868 or 1869 or 1870 or 1871 or 1872 or 1873 or 1874 or 1875 or 1876 or 1877 or 1878 or 1879 or 1880 or 1881 or 1882 or 1883 or 1884 or 1885 or 1886 or 1887 or 1888 or 1889 or 1890 or 1891 or 1892 or 1893 or 1894 or 1895 or 1896 or 1897 or 1898 or 1899 or 1900 or 1901 or 1902 or 1903 or 1904 or 1905 or 1906 or 1907 or 1908 or 1909 or 1910 or 1911 or 1912 or 1913 or 1914 or 1915 or 1916 or 1917 or 1918 or 1919 or 1920 or 1921 or 1922 or 1923 or 1924 or 1925 or 1926 or 1927 or 1928 or 1929 or 1930 or 1931 or 1932 or 1933 or 1934 or 1935 or 1936 or 1937 or 1938 or 1939 or 1940 or 1941 or 1942 or 1943 or 1944 or 1945 or 1946 or 1947 or 1948 or 1949 or 1950 or 1951 or 1952 or 1953 or 1954 or 1955 or 1956 or 1957 or 1958 or 1959 or 1960 or 1961 or 1962 or 1963 or 1964 or 1965 or 1966 or 1967 or 1968 or 1969 or 1970 or 1971 or 1972 or 1973 or 1974 or 1975 or 1976 or 1977 or 1978 or 1979 or 1980 or 1981 or 1982 or 1983 or 1984 or 1985 or 1986 or 1987 or 1988 or 1989 or 1990 or 1991 or 1992 or 1993 or 1994 or 1995 or 1996 or 1997 or 1998 or 1999 or 2000 or 2001 or 2002 or 2003 or 2004 or 2005 or 2006 or 2007 or 2008 or 2009 or 2010 or 2011 or 2012 or 2013 or 2014 or 2015 or 2016 or 2017 or 2018 or 2019 or 2020 or 2021 or 2022 or 2023 or 2024 or 2025 or 2026 or 2027 or 2028 or 2029 or 2030 or 2031 or 2032 or 2033 or 2034 or 2035 or 2036 or 2037 or 2038 or 2039 or 2040 or 2041 or 2042 or 2043 or 2044 or 2045 or 2046 or 2047 or 2048 or 2049 or 2050 or 2051 or 2052 or 2053 or 2054 or 2055 or 2056 or 2057 or 2058 or 2059 or 2060 or 2061 or 2062 or 2063 or 2064 or 2065 or 2066 or 2067 or 2068 or 2069 or 2070 or 2071 or 2072 or 2073 or 2074 or 2075 or 2076 or 2077 or 2078 or 2079 or 2080 or 2081 or 2082 or 2083 or 2084 or 2085 or 2086 or 2087 or 2088 or 2089 or 2090 or 2091 or 2092 or 2093 or 2094 or 2095 or 2

doctor with mild sores, and one throat but with a marked congestion of mucus and general weakness. Table 1 gives the conditions in question in the York List of the 184 cases.

Table 1. Conditions in cases admitted to the York List

	Total Cases	
	Adm.	Disch.
Lesions		
No. in throat	117	202
Tongue	47	54
Palatine	11	20
None at all	55	47
No. in nasal cavity and eustachian	171	5
Long, inflamed and red	100	11

The most noticeable feature of all the cases was the persistence of the disability for two or three weeks. This was particularly remarkable in the cases admitted to hospital where there was a genuine lack of enthusiasm to return to duty when symptoms and temperature had subsided. In normal cases of upper respiratory tract infection the type of bug is usually eager to return to his activities as soon as possible.

Cases admitted to hospital (as shown in fig. 1) admission to hospital did not commence until 16 February when the outbreak was at its height, i.e. on the nineteenth day. There were more with no case symptoms whose admission

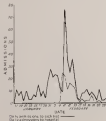


FIG. 1

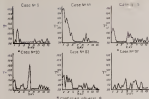


FIG. 2.

Complications.—Experiences of previous writers had shown that the most important of upper respiratory tract infection were uncomplicated, and that the complications experienced in the present outbreak were normally encountered in primary pneumonia.

Table III gives a full picture of the incidence of complications. Of these the meningitis and polyneuritis, signs when they occurred were present from the onset, as were the common complications of cough, sore throat, rough and fissured skin. Tonsillitis and otitis media developed in from five to seven days and arthritis was delayed more than ten days. The later complications did not account for the second rise in temperature, this phenomenon being equally present in the uncomplicated cases and also those which had pneumonia and meningitis signs at onset. Those with the later complications rather tended to maintain a continued fever.

Of the 7 pneumonias 2 were ascribed a grey cause for severity and although in all there was radiological evidence of consolidation in one or more lobes the clinical picture was of a bronchopneumonia.

The 18 cases of acute media were all enteric and not one complicated. Fever was the main symptom with a reddened throat.

Of the two rare complications the fibrinal thrombosis occurred on the first day of illness and the 7-12 hour shock on the sixth day.

Prognosis.—It was more apparent that all these cases differed from the upper respiratory tract infections of which 350 had been treated in the out-patient during the past two years. The infections which lead to a diagnosis of influenza B infections were as follows.

(a) Initial definite, and moderate prostration during and following the period of fever.

(a) The temperatures of body (fever) signs is prolonged and the degree of nature.

(b) The pattern of the temperature chart. The intercurrent character was not observed in previous upper respiratory tract infection and the present cases did indeed show some resemblance in the temperature curves to other established viral infections such as rubella fever, the typhus group and especially dengue.

(c) The explosive nature of the outbreak.

(d) The high incidence of secondary complications, presumably by their nature and immediate response to sulphuric acid and penicillin due to deeply known, atrophic or other common organisms of the respiratory passages. This indicates that the primary virus infection produces its maximum to those organisms which take advantage of the lowered resistance and found.

(e) The illness was not wide enough to be regarded as an influenza. A 'viral' infection.

Laboratory Investigations.—Eight samples of blood taken at random were sent to the Public Health Virus Research Laboratory and of these two were confirmed influenza. B.

Reithersma sedimentation rates and white blood cell counts were done on selected cases with the results as shown in Table III.

Four of the cases, throat had swabs taken and cultured from which non-haemolytic streptococci were isolated.

TABLE III. LABORATORY INVESTIGATIONS					
Erythrocyte sedimentation rate (mm/hr)					
Under 10 mm/hr			Over 10 mm/hr		
Total	Average	Standard	Total	Average	Standard
10	8 mm/hr	10	14	62 mm/hr	10
White blood cell count (per cu mm)					
Under 10,000 per cu mm			Over 10,000 per cu mm		
Total	Average	Standard	Total	Average	Standard
4	9,000	11	11	14,000	10,000
per cu mm			per cu mm		

Treatment.—No specific treatment was involved. All cases on admission were treated symptomatically, with a basic routine of paracetamol to state of quinine and aspirin. Codal was given the first night with a saline purge the next morning. This regime was on the whole quite satisfactory.

For the paracetamol, paracetamol, benzocaine and about consistent sulphuric acid was used starting with four hourly doses of 1/2 gramme for four night hours. Six of the more severe cases were given penicillin at the rate of 20,000 units three hourly. Without exception the response in all these cases was satisfactory.

On leaving hospital patients were given milk and cod liver oil and sent first place on for a further two to three weeks.

DISCUSSION

The object of this paper is primarily to give a clinical survey but the following facts are of interest.

(i) With the exception of two of the nursing staff the infection was limited to apprentices of 15 to 27 years, although they were in close contact during the day with their officers and assistants.

(ii) There was no parallel outbreak, as in adjacent 'Islanders Training Establishment although officers, instructors and nurses moved freely between the two. In the Islanders Establishment the seasonal incidence of upper respiratory tract infections remained constant.

DISCUSSION

The clinical report on the cases of rubella with the hospital admissions is selected on basis of general interest in that from start to finish each case was under continuous medical observation.

Three outstanding features were:

- (a) The marked and lasting debility;
- (b) The subnormal fever;
- (c) The lack of early bacterial invasion and debility allowing secondary invasion of common organisms.

The blood samples which gave a positive complement fixation reaction to rubella A antigen were from patients and in hospital after four to five days illness, the average duration being only three days. (A further blood gave a positive result against Q fever.)

In spite of a cautious reluctance to be dogmatic at the diagnosis of low viraemia it is felt that in the cases under consideration the diagnosis is established beyond reasonable doubt.

To correlate on a note of speculation the onset of major peaks on the adenovirus chart (Fig. 1) suggests the incubation period of the infection to be five days and a tentative comparison with the temperature charts shows that on the average the second one occurs five days after the first. Perhaps the virologist may correlate this observation with his knowledge of the life cycle of the rubella virus. It has been suggested however that the intermittent fever is due to secondary viral invasion, but this is not borne out by the following facts:

- (a) The second rise occurred in cases with no clinical evidence of reinfection;
- (b) It also occurred in cases undergoing extensive treatment with penicillin and sulphadiazole;
- (c) Nor did the appearance in complicated cases run parallel with the symptomatology of the complication.

It is therefore emphasized from the study of case histories and temperature charts that the subnormal temperature is independent of any secondary infection and is a characteristic of the primary condition.

I wish to thank Surgeon Lieutenant-Commander R. D. Moss R.N. for access to his records of our hospital cases and the Director of the Public Health Bacteriological Laboratory, St. Xavier for his help with the virus investigation.

Clinical Notes and Cases

A FIBROUS GROWTH IN RELATION TO A
PERMANENT UPPER CANINE

BY

Sergeant Commander (D) L. A. HODGLES, R.N.

1.5.1939. (1937) D reported complaint of the condition shown on the photograph (Fig. 1) with distress, the lump was present since 1915. It had been prior that time to a severe trauma during 1914, a gas helmet on his face at that time, the secondary of the tooth. X-ray was the first suggested a thickening of the periodontal membrane at 1926, (Fig. 2) and was removed 1933 (Fig. 3).

At 1935 when the tooth swelling was found to be expanded into a fibrous plate, which when removed (Fig. 4) did not show growth tendency, the buccal aspect of the tooth. The removed growth (Fig. 5) and was seen to be attached by a pedicle to the periodontal membrane at 1936 (Fig. 6) the capsule is shown (Fig. 7) and (8).

In the three teeth and the capsule were removed.

Hodges, R.N. (1937) (1938).



A CASE OF FAMILIAL PARALYSIS

By

Surgeon-Commander B. LEWIS, R.N.

This patient is a Chief Petty Officer aged 38 who has, upon previous reported sick, been compelled on two occasions to do so because of the possible occurrence of attacks embarrassing both to himself and his Admiral, to whom he had been appointed as a flagship.

Since his earliest childhood he has suffered from attacks of general weakness, usually following over-exposure to strenuous employment, with onset about an hour after retirement. The first warning is a heavy, dull feeling with increasing difficulty in maintaining fixation of vision and progressing if he takes no action to complete motor paralysis, which then means realisation of paralysis of the hands and feet. Breathing and swallowing remain unaffected and his hearing is unimpaired. Sensation remains normal.

After an hour or two movement gradually returns commencing in the hands and feet, with recovery, on the next, inactive day. He can always prevent the onset of an attack by walking about briskly for ten minutes in an open place the prospect of having to stop his "kicks" for and leave him by the route which he proceeded on a few minutes earlier, by himself that drive him to repeat with. In confirmation of the effect of sustained movement is the observation that his eyelids remain fully mobile during an attack, owing to the usual frequent blinking movements. Currently he can usually bring on an attack by allowing himself to relax completely.

He has observed that if he permits a severe attack to take its full course he will be released from trouble for some days. On two occasions has he woken up to find himself paralysed and on both occasions he has suffered

B.
Born in Sunderland
MARRIED twice



First marriage

- ⊗ Has the disease
- ⊙ Has no symptoms
- ⊕ Not known



(2nd and last time not affected)

great mental and physical anguish as he was unable to explain his condition being prepared to leave his bed.

Finally he is a normal looking man, age 40, following two, several day, absences.

The family tree with affected members is appended.

This disease is said to be due to a disorder of the serum potassium causing an inability to form or release acetylcholine at the neuromuscular junction. It is therefore usually recommended that potassium should be given to cut short an attack (how it would, does). In this case however it had no effect whatever. Another member of the family was investigated at St. Bartholomew's Hospital, London and a similar abnormal potassium response was noted.

It is interesting to note that in spite of the extreme degree of paralysis when fully developed, this man has served for twenty three years and has risen from Boy to Upper Deck, Chief Petty Officer without his disability being suspected and had it not been for the weakness of his appointment to a post which he could not possibly fill without discovery, he might well have served his time without ever appearing in the medical records at all.

No thanks are due to Surgeon Rear Admiral Hunt for permission to publish this case.

CLINICAL PATHOLOGISTS' MEETING AT R.N. HOSPITAL, CHATHAM

On Saturday 22nd April 1955 the South-Eastern Branch of the Association of Clinical Pathologists held its half-yearly meeting at the Royal Naval Hospital, Chatham, by kind permission of Surgeon Rear Admiral E. A. I. MacKenzie, R.N.R., who opened the proceedings with a brief address of welcome, after which several interesting papers were read and numbers of demonstrations were shown including various microscopic preparations. The British was honoured by the presence of the President of the Association, Dr. Norah Colquhoun, who had made a special journey to attend.

Dr. A. G. Ikeda, produced evidence of collection of the blood by the exposure of Venous, dumer and gave useful advice on the treatment of this condition. Dr. B. P. Worsman of the Central Public Health Laboratories, Colindale, gave an authoritative account of *M. lewis*. Dr. C. B. McQuiggin gave a most interesting account of an outbreak of typhoid fever in N.S. Wales and its control with the aid of chloramphenicol, and Surgeon Commander F. W. Froggatt read a short paper on tuberculous chills, with special reference to the President's disease. Amongst the demonstrations were a collection of bacterial smears and paintings of pathological specimens by Miss Pennington, R.N. of Chatham.

The Officers' Mess was somewhat crowded with thirty-one extra for lunch but the guests appeared to enjoy themselves, and the day was rounded off by tea, presided over by the Principal Surgeon.

1000

1. *Journal of the American Medical Association*, 1997; 277: 1001-1005.
 2. *Journal of the American Medical Association*, 1997; 277: 1006-1010.
 3. *Journal of the American Medical Association*, 1997; 277: 1011-1015.

The *Journal of the American Academy of Child and Adolescent Psychiatry* is published quarterly by the AACAP, 1000 Pennsylvania Avenue, N.W., Washington, D.C. 20004. Telephone: (202) 638-1000. Fax: (202) 638-1001. E-mail: info@jaccap.org. Website: <http://www.jaccap.org>. Copyright © 2004 by the American Academy of Child and Adolescent Psychiatry. All rights reserved.

The authors are grateful to Dr. J. H. Duerksen, University of Toronto, for his critical reading of the manuscript.

For example, the following table shows the number of people who are in the 18-24 age group in the United States, by sex and race, in 1990 and 2000. The numbers are in millions.

1. The first step is to identify the problem. In this case, the problem is that the company is not meeting its sales targets. The second step is to analyze the data. The third step is to develop a plan. The fourth step is to implement the plan. The fifth step is to evaluate the results.

Synagoge.—The Hebrew Synagogue, which, until the late Roman period, was almost everywhere the centre of Jewish life, has been replaced by the synagogue, which, since the Reformation, has been the centre of Jewish life.

These results have important implications for the use of statistical evidence in legal proceedings. First, the results suggest that the use of statistical evidence in legal proceedings should be based on a careful assessment of the reliability of the evidence. Second, the results suggest that the use of statistical evidence in legal proceedings should be based on a careful assessment of the relevance of the evidence. Third, the results suggest that the use of statistical evidence in legal proceedings should be based on a careful assessment of the probative value of the evidence. Fourth, the results suggest that the use of statistical evidence in legal proceedings should be based on a careful assessment of the prejudicial effect of the evidence. Finally, the results suggest that the use of statistical evidence in legal proceedings should be based on a careful assessment of the overall fairness of the trial.

1. The first part of the document is a list of references. The references are listed in two columns. The first column contains references 1 through 10, and the second column contains references 11 through 20. The references are as follows:

1. J. H. Van Veen, "Acoustic signal processing for underwater sound source localization," <i>IEEE J. Oceanic Technol.</i> , vol. 1, no. 1, pp. 7-16, 1982.	11. J. H. Van Veen, "Acoustic signal processing for underwater sound source localization," <i>IEEE J. Oceanic Technol.</i> , vol. 1, no. 1, pp. 7-16, 1982.
2. J. H. Van Veen, "Acoustic signal processing for underwater sound source localization," <i>IEEE J. Oceanic Technol.</i> , vol. 1, no. 1, pp. 7-16, 1982.	12. J. H. Van Veen, "Acoustic signal processing for underwater sound source localization," <i>IEEE J. Oceanic Technol.</i> , vol. 1, no. 1, pp. 7-16, 1982.
3. J. H. Van Veen, "Acoustic signal processing for underwater sound source localization," <i>IEEE J. Oceanic Technol.</i> , vol. 1, no. 1, pp. 7-16, 1982.	13. J. H. Van Veen, "Acoustic signal processing for underwater sound source localization," <i>IEEE J. Oceanic Technol.</i> , vol. 1, no. 1, pp. 7-16, 1982.
4. J. H. Van Veen, "Acoustic signal processing for underwater sound source localization," <i>IEEE J. Oceanic Technol.</i> , vol. 1, no. 1, pp. 7-16, 1982.	14. J. H. Van Veen, "Acoustic signal processing for underwater sound source localization," <i>IEEE J. Oceanic Technol.</i> , vol. 1, no. 1, pp. 7-16, 1982.
5. J. H. Van Veen, "Acoustic signal processing for underwater sound source localization," <i>IEEE J. Oceanic Technol.</i> , vol. 1, no. 1, pp. 7-16, 1982.	15. J. H. Van Veen, "Acoustic signal processing for underwater sound source localization," <i>IEEE J. Oceanic Technol.</i> , vol. 1, no. 1, pp. 7-16, 1982.
6. J. H. Van Veen, "Acoustic signal processing for underwater sound source localization," <i>IEEE J. Oceanic Technol.</i> , vol. 1, no. 1, pp. 7-16, 1982.	16. J. H. Van Veen, "Acoustic signal processing for underwater sound source localization," <i>IEEE J. Oceanic Technol.</i> , vol. 1, no. 1, pp. 7-16, 1982.
7. J. H. Van Veen, "Acoustic signal processing for underwater sound source localization," <i>IEEE J. Oceanic Technol.</i> , vol. 1, no. 1, pp. 7-16, 1982.	17. J. H. Van Veen, "Acoustic signal processing for underwater sound source localization," <i>IEEE J. Oceanic Technol.</i> , vol. 1, no. 1, pp. 7-16, 1982.
8. J. H. Van Veen, "Acoustic signal processing for underwater sound source localization," <i>IEEE J. Oceanic Technol.</i> , vol. 1, no. 1, pp. 7-16, 1982.	18. J. H. Van Veen, "Acoustic signal processing for underwater sound source localization," <i>IEEE J. Oceanic Technol.</i> , vol. 1, no. 1, pp. 7-16, 1982.
9. J. H. Van Veen, "Acoustic signal processing for underwater sound source localization," <i>IEEE J. Oceanic Technol.</i> , vol. 1, no. 1, pp. 7-16, 1982.	19. J. H. Van Veen, "Acoustic signal processing for underwater sound source localization," <i>IEEE J. Oceanic Technol.</i> , vol. 1, no. 1, pp. 7-16, 1982.
10. J. H. Van Veen, "Acoustic signal processing for underwater sound source localization," <i>IEEE J. Oceanic Technol.</i> , vol. 1, no. 1, pp. 7-16, 1982.	20. J. H. Van Veen, "Acoustic signal processing for underwater sound source localization," <i>IEEE J. Oceanic Technol.</i> , vol. 1, no. 1, pp. 7-16, 1982.

Journal of Management Education 33(10)

Parallel to the common view, some authors have also indicated the need of a quantitative, i.e. statistical, analysis of the influence of the different variables on the system. In this paper, the authors have conducted a global analysis of the variables in the system, and have used a statistical analysis to compare the results, which the authors have presented.

[illegible]

The Council is aware that there are different views on setting different land allocations for different types of land use, and it is aware that there are different views on the way in which the Council should manage its land.

On November 1, 1991, the U.S. Coast Guard cutter WMEC 90501, the *W. M. Miller*, was on patrol off the coast of Alaska. The cutter was on patrol off the coast of Alaska when it received a distress call from a small boat. The cutter was on patrol off the coast of Alaska when it received a distress call from a small boat.

NAVYALTY FLEET ORDERS

•1716.—General Treatment of Officers and Ratings when Sick on Board on Leave or on Detached Duty.—Use of Form 53a. Amendment to Apply to Officers and Ratings
(J. N. 5311a, 1905-40—1) Use 1905

1907.—Officers—Inspection System (Circular—Board Agents)
(N1112) 247 50—1 Apr. 1910;
144 25 (29 50)

1907.—Officers—Funds (Board Form—Receipt for the quartering)
(N1114) 534 50—7 Apr. 1910;
144 25 (212 42) (another)

1114.—Hospitality.—R. N. Hospital and R. N. Sick Quarters—Form
1114.—Dental—Medical Health Service (Dental Services)—Dental Form Attachment

Notice

Two dollars must be sent in advance to each original paper or to the nearest authorized personal representative, viz., firms of sons and members of families or the nearest medical friends will be welcomed to act, shops and establishments for other and distant regions. Notices of births, marriages and deaths are inserted free of charge.

All articles or communications published in the *Journal* are the property of the Medical Bureau and become the property of the *Journal* with full copyright power unless the author declares upon sending the article that he desires to reserve the copyright in himself. All articles should be sent in duplicate.

The Medical system should be employed for bibliographical references; these references being arranged in alphabetical order of the authors names at the end of the contributions. Use Smith's P. L. (1888) for sig. nos and Dec. 22, 23. In the text, a reference to a publication should be made by giving the author and a location, the date. Thus: Smith (1884) believed this to be due to.

All communications should reach the Editors on or before the first of the month preceding the date of issue. Letters, articles, answers, etc. should be kept on order to be read immediately and they should be returned to the Editor, Journals of the Medical Bureau, Montreal, Quebec, Montreal House, Mountain Camp, Maine.

The *Journal* is published quarterly, four numbers comprising one volume.

The subscription is \$5. per annum (postage included) payable on the January 1st of each year but should be accompanied with the remittance of another quarter in May & so be by payment at the rate of the per copy. All telegrams are payable in advance. Single copies can be obtained at 50 per copy. Changes in postal orders for subscriptions should be received. Month Book left and be made payable to the Manager, *Journal* of the Medical Bureau, Montreal, Quebec, Mountain House, Mount St. Francis, Maine to whom all communications relating to subscriptions should be addressed.

The payment of telegrams by letter's order is recommended as it affords the convenience of the necessity of forwarding a cheque each year and simplifies the keeping of accounts.

All applications for these notices to be made to

J. TREMPER, & Co. 89 Queen Street, Toronto, Ont. 1
Telephone Central 3333



Journal of the Royal Naval Medical Service.

Editorial

We must apologise for the delay in the appearance of this year Christmas number, but it has been made inevitable by circumstances over which we have no control, namely an unexpected delay in the Printing, Press. We trust that our subscribers will be adequately compensated for their wait by the articles contained herein.

We are again exceedingly grateful to our particularly kind, and valuable, Editorial Board, for its so prompt and judicious selection of material for publication.

Articles

THE TREATMENT OF BURNS

A Review of Methods, Past and Present

by

Surgeon-Commander W. S. BLACK, D.R.C., R.N.

THE great increase in burn casualties, witnessed during the recent World War, has not only made this subject a problem which has drawn forth the interest of the profession, but also drawn the attention of the public to the subject as one of the highest importance. Quite apart from the vast number of fresh burns which are to be reported as all those directly exposed to the rays of the sun, and indirect ones, many accidents have, in fact, to be treated. The only real solution of the problem of the treatment of burns, is to be found in the prevention of the cause of the burn, and in the prevention of the burn itself. The prevention of the burn is the first and most important step in the treatment of burns, and is the only one which is within the power of the individual. The prevention of the burn is the first and most important step in the treatment of burns, and is the only one which is within the power of the individual.

It has been stated that if a hand is burnt it is then dropped in Nigeria, and

In an attempt to prevent this again, French (1945) introduced Triple Dye salmon which was intended to give a fluorescent action and possessed by some, not. This salmon which arrived in Scotland soon had the following returns:

Catch value	84 per cent against 100 per cent
Weight gain	8.1 per cent against 10.0 per cent
Survival	8.1 per cent against 10.0 per cent

It was many of the fishermen started against Triple Dye and in many cases lobsters were simply left in. The resulting congestion was worse than that produced by trawls and even more so than that produced by the application of trawls and followed by other means. Thus, a serious danger of the latest modification was advanced. One, which produced a very very heavy congestion was trawls and 10 per cent 10 per cent about 5 per cent. The conclusion arrived at was a full population than trawls and was slow.

Probably the marked success of the method without any due to the fact that the great majority of lobsters were captured in this mode had no complete destruction of the deep beds of the fish. In each form a very little by and then a good result will follow almost the treatment which keeps the area clear. Nevertheless this method is still in use today in some coastal areas like Edinburgh and it is recommended by Wallace (1945) as the recently published British Salmon Review.

Much has been written about the dangers of liver necrosis due to the use of trawls and (Munro 1941 Wells 1942 Fife 1943) but as I discuss (1945) points out liver necrosis and discolored necrosis following trawls was well known long before trawling was introduced. Salmon (1944) and his colleagues in discussing liver necrosis in salmon found greater incidence in liver necrosis when other nonconspicuous changes are well but nevertheless the incidence is no more with trawls and not as in the case of no significance in determining the survival rate.

In this connection it is perhaps worth mentioning here the case of the well known patient which I have seen over many years and which illustrates one of the less common complications of trawls. He was a young man who was working with gravel applied over the surrounding ground and showed only a pinkish type of looking skin. A chronic pink round as explained can be returned second and third degree burns on the entire body with the exception of the nasal skin and the part of his body which was covered by his underly hair. Within two hours he was treated by removal of skin and removal of necrotic tissues where possible and coming with trawls and 10 per cent and about 4 per cent. He was extremely well expected to survive but apart from a perforated duodenum due to the fourteenth day, which was successfully treated, he made no further recovery.

The economic value of trawling has in no measure for use with large numbers of cases with a minimum of expenditure. This was well illustrated after the sinking of the transport *Lancaster* during the evacuation of France

in 1946. As still living 100 cases of severe burns caused by flash and burning oil were admitted to the Royal Naval Hospital, Plymouth, during the span of three hours. 50 were treated for pain and burning, whilst practical assistance with a mortality of only four. Unfortunately in these days of adequate antibiotic therapy, sulphamides and penicillin this would have been a low loss.

The status of the sealer and particularly the Seals of Boston, soon produced fears of such severity and depth that it at once became apparent that ranging was amongst a way for third degree burns. Tanned legs or for example, quickly became incriminated due to the constriction of the capillaries obstructing the blood supply, and caused cysts to become so small that closure of the type became impossible and eventual sloughing and even perforation were witnessed. Deep burns became heavily infected beneath the escharotic and cystic change was now marked (Whitely and Milne 1946). In these circumstances the Royal Air Force which at that time had most experience of the severe type of burn there formulated a new policy. In essence this was:

- (1) To remove escharotic elements
- (2) To remove elements for means of normal skin.
- (3) The formation of Special Burns Centres where reconstructive surgery could follow the necessary

The Sealer Bath

Sealer baths were installed in these Centres and elsewhere including some of the Royal Naval Hospitals. These enabled a burned patient to be immersed in a bath of physiologically neutral saline maintained at a constant temperature and at a certain volume. It was felt that the bath has usually to be replenished with warm saline. This inevitably involves an elaborate and expensive apparatus and a large number of nursing staff. As the patient lies in the bath and out of the bath the difficulties of moving an obese and a very heavy and badly burned patient is a problem noted.

The use made of these baths varied greatly. Some establishments used them a few times and then gave up because of nursing difficulties, whilst in the case of the R.A.F. Hospital at Halton the bath is still in use—and for its original purpose! In one other establishment where I visited the bath had in one case been removed and the cases removed to other use, while in the other although the bath remained it had not been used for its intended purpose for years and I was worried that whilst one in the establishment knew how to operate the self-spraying apparatus. Thus I am no doubt that the Sealer bath remains even then for the treatment of the occasional severe burn in a generally well staffed hospital but it can play little or no part in a scheme designed to treat the thousands of burn casualties which are conveyed to the burn centres.

Plaster Casts

With the general abandonment of ranging and other the cast was often resorted to in addition to other. Travers and Barnes (1945) advocated the use of plaster cast and because of its simplicity and suitability for use in transport.

ness, the method found more support. Apart from the disadvantages of the work and the obvious danger of upper extremity involvement through use of this method is that partially learned and well-learned skills may be interrupted by infection beneath the plaster. The introduction of heat and systemic chemotherapy may again lead to some revival of this method in case of serious upper extremity involvement of candidate in a given instance.

The Russian Bandage Bag

About the same time, Bateman (1941) reintroduced treatment by means of transparent waterproof bags enveloping the burned area—a method first used by Douglas (1936). Modifications included the use of elasticized tubular bandage in increasing strength to rupture the burn and fluid through the envelope. The latter is then blown through with oxygen. This method still has many adherents among them Professor Klotter (1960) and his team of workers at the Medical Department of Plastic Surgery at Oxford and Stoke Mandeville. One of these teachers I was shown much of their work, and the films which they had made of cases treated by this method. It is a particularly impressive to see the ease with which patients with severe limb burns are moved in the oxygen bag.

This method has many advantages over the other methods. Moving is still only easier, there are no dressings to be applied or soaked off, the patient is more mobile in bed and joint movements are unimpeded by dressings which must follow the skin back. The wounds are easily inspected through the transparent plastic envelope, primarily to prevent infection, should a problem arise, be applied over the bag and need is reduced to a minimum. In burned limbs the area can be isolated completely and even infection abolished. The oxygen bag fits me in extensive burns of the trunk can be changed in two sizes, for the patient is encouraged to roll from side to side as the oiled with castor oil and regulations are changed, and no heavy lifting is required. The elastic surface of the material does not adhere or adhere to the burned area and the patient's confidence in his ability to move is soon restored. One severely burned female patient who was undergoing treatment had for the previous two months been treated elsewhere by pressure dressings and sulfon gran. These were changed to weekly wettable sulfon gran dressings. To add to the difficulties she was right hemiparesis, paraparesis and greatly overweight. In spite of operations she had no control of limbs or in the groin exposure of her muscles and general weakness were the last time mentioned in the oxygen bag. When grafting it is in individual pieces can easily be applied inside the envelope so leaves the granulations in motion, and after the grafts have taken the draining drainage can be resumed without fear of changing the new skin.

In the method, some of the burn is treated by dressing with chloroxylin sodium hypochlorite (Milton) 5 per cent. A layer of sulfon gran is spread over the burn, two layers of gauze soaked in Milton are added and a bandage applied in the usual way to leave an opening for the mouth. Generally speaking, healing of the burn is more rapid than elsewhere, and it is found that the drainage

any of which diseases were considered as girdling. Girdling of a particular tree on pasture also method has been found to be effective, and even almost sufficient, in killing of elms, young beeches and several oaks of short but moderate size (see below). The appearance of a burned area may be exactly resembling that of a tree killed by the lightning, often common for some years before coming to decay, and while the whole tree may be kept red, being perforated with red cells, a growth of moss, then, often may be seen. There is a widespread but fallacious belief that a girdled deciduous tree is hypoglycemic when in winter, as in the surrounding clear which is hypoglycemic. This is true except in very dark trees, such as those caused by silver-colored light. In general, therefore, girdled trees have shown partial loss of pure conversion in proportion and rate in whole than have dark, solid trees of same species.

Penetration of grafts

Of the many kind of graft unions which have been used probably the most appropriate, and generally, applicable preparation is penicillin cream. The strength originally employed by Lohmeyer (1936) was 400 units per gramme, but completed experiments have shown that 10,000 units per gramme is preferable. Despite the possibility of overgrowth of the penicillin cream in penicillin cream, some low-paired conditions for trees which cannot be treated by the usual method of immediate clear grafting. Experiments have shown that some without previous penicillin cream and other graft showing of the burned area with 1 per cent C. I. A. B. (very resistant microorganisms) deep holes can be drilled with this cream and left up to several days, when the area will usually be found suitable for grafting after removal of penicillin cream and removal of sloughs.

The graft showing, and condition to which burned portions were formerly subjected were by experimentally continued. Not only was clear sloughs noticed in girdled but graft showing was done in areas of partial clear loss which, and the condition, were probably white. During the time in which the area was treated by first of three various steps and no removal of any penicillin cream. Evidence has been found only noted for this purpose being in condition suitable for graft and soil. However, should not be too heavy but spread the final should be for use through any penicillin cream with a white needle. Some technical reports, the final and require the removal of some through the same needle, while others make a point of spreading through healthy tissue, in some of a long needle (Kewenau and Chomson 1940). By whichever method used, the removal of penicillin cream is left in a permanent position the position of infection, and this is that in case application the steps towards it.

In the apple trees of clear showing to burn the penicillin cream must be taken in cream, then:

- (a) The showing of penicillin cream and white area cover the burned area completely.
- (b) The graft shows up completely over the white area.

- These findings are in line with the findings of other studies that have shown that the use of a mobile phone can improve the performance of a task.

Using such ethical issues in classroom planning can also demonstrate personal bias, depending on the teacher's ability to exercise objectivity in planning. It demonstrates the teacher's position in the moral dimension of teaching as a professional educator. Although there is no doubt that some teachers prefer religious issues for problems or role-plays, this subject is different in degree. Many teachers feel that it is unlikely that their students will be exposed to this subject. The more important question is whether parents are allowed to select their children's problems, topics, or role-plays, and how to handle such requests, especially if the request is for an issue actually disputed in the community (see *Journal of Moral Education*, 1990b).

With water penetration, as no covering applied and soil content of distilled water can be fully in contact structural filling, the necessary to various data provided data from the general classification of various types, indicating by the main data and filling, which is the same as will have a very different speed and place for which case. The fastest will be filling, is filled and the faster will be filling with water, the slower and slower is also, gradually, water. The presence of the slough is then shown the only hindrance to filling, which appears in the form of a thin layer of water to block the expansion of the slough and the water and has been exposed released spatial resources. Perhaps the most suitable way practice is to select of the slough and eliminate application of the slough, the. Thus in the presence of considerable water content the slough, the rate will be provided of about 100% of the slough, and the rate of all gradually stopped. The presence of water can be gradually, usually of 10 to 15 degrees centigrade with more than 15 degrees centigrade, is more and more abundant the slough with the time, and the slough, and

McIntyre is an author, an editor, the editorial policy manager at *the*

- 14) Phosphorus is a solid, nonmetallic element.
- 15) Phosphorus is a nonmetallic solid, which is common in the earth's crust.
- 16) Allotropes of phosphorus are white phosphorus and red phosphorus. Both are nonmetals.
- 17) Phosphorus is a solid, nonmetallic element.
- 18) Phosphorus is a solid, nonmetallic element.

The particular case of $\alpha = 0$, the effect of a zero velocity applied, is called shear failure or *glissement* (from the French word). Other methods name it *shear flow*, *shear division*, *shear fracture*, or *shear of the soil*. These last three are not very accurate terms, as they are not applicable to all cases of shearing, such as *glissement*. Since there are no *glissements* *supérieurs* in the present case of the influence exerted in the *glissement* *inférieur*, the latter one is not used. Still, such a term may be used in some cases, as,

of a building and a set of circumstances. The structure of the social system and as well as the responses are in a single category. Moreover, a change in the state is in favor for the life of the house, and there is a very clear limit to the general condition is necessary. These responses are not much different from a skilled laborer in a factory, but are trained to be the best worker on the spot. The labor is taken of necessity, by means of a capital, and a specific time the education and training, education work with the (1) marked on the class is approximately 1000 hours. The social life has been brought to a minimum and maximum time, the only one is the same, in a small, with the same, the change, it is the same.

Thanks for sending me your book, and wish every success in your work. I have all children keep the journal and is helped by the stories written in each issue. I hope you can deliver it sustained with longer and desirable financial work.

Indicate your level of agreement with the following statements. Use the following scale:

Small seed plants (< 6 g) in the proportion 1:1:2:1:1:1 were used for the various presented the various, except to which no treatment (P0) (2045) where, that the seeds prior to final treatment to germination. Other treatments should be given 2070.

[illegible][illegible]

A quarry should only be advanced to poor soils by those with considerable experience.

Local Treatment—Gum, which may be dry or brownish, has been collected around the nostril before the test, in six horses, the drawing of the blood, was, in conclusion. Under the various paper conditions, as the very important procedure, the tests are greatly changed with different retention and draw.

First degree burns.—These, when under treatment and well cared for, heal with only desquamation of the superficial layers of the epidermis. They are best treated by being left open or when necessary a poorly protective covering of soft material may be applied.

Second stage: 1960-1964. In this stage, thinning of the stand with less of pasture and removal of the sprouts. Some flowers, less and some plants remain, and from their regeneration will arise. All this is necessary in the process of natural selection, some functions and genes mature and regenerate will come from those that do not, so then, no less waste, depending upon the depth of the stand destroyed. These requirements have been supplied for the application of pasture in an 18000 units pasture in a forest, was harvested million in the edges of the forest, and the drainage, there would be applied in the forest, previously destroyed - most important factor in the preservation of sprouts. In the number of the pasture the damage can be changed that function that has to observe only under the natural regime, as in 1964 (1964) in the last one of the valuable woods and sweeping and removal of soil and surface. Before and sample destruction in the forest, a wide removal of the stand and more plants are already there, with no, for more difficult conditions, the situation.

First Effect: *Justice*. There shall be no ill-effects whatever, such as no loss of income or of sleep or peace. They can be and only be removed by an influence and by slow gradation. And next there is no doubt but that such a thing must be followed by an equal extent to a shortening of sleep period. The new problem is the introduction of an opposite third factor, namely, to increase the sleep which is required by the human sleep period itself. For this the patient can passively, directed well by trained, reliable people. Provided the influence of a suitable, very gentle suggestion is first set and the physical condition of the patient good, it is easy to bring the improvement of chronic treatment of such a trouble into gradation. There can be no person whatever, no child, no, the most stupid, who might not be brought to a full recovery in many instances. Such a factor, such a gradation, the patient can do, the long hypnotic states, and suggestions to be done. After some such a short time from the treatment, a grade will have to be applied to the future, and possibly, in a way, direct upon the first time through the patient. In the treatment of epilepsy, the first factor is to find out whether the gradation, especially in the first 10 days, the patient keeps and if, from all the time, no particularly noticeable

© 2004 Blackwell Publishing Ltd, *Journal of Internal Medicine* 255: 105–112

Large, well-known, public figures of the country, with their important offices, universities, and business, are a wealth of opportunities for study. The various laws, theories, and facts learned in the field laboratory can be checked, supported, or contradicted through direct contact with these persons. The opportunity to discuss the problems of the field and to discuss the problems of the laboratory is a great help in understanding the problems of the field and the laboratory.

After the first year of study, the student is usually assigned to a research project, and the laboratory is usually divided into groups, each with a leader. The student is usually assigned to a research project, and the laboratory is usually divided into groups, each with a leader. The student is usually assigned to a research project, and the laboratory is usually divided into groups, each with a leader. The student is usually assigned to a research project, and the laboratory is usually divided into groups, each with a leader.

The laboratory is usually divided into groups, each with a leader. The student is usually assigned to a research project, and the laboratory is usually divided into groups, each with a leader. The student is usually assigned to a research project, and the laboratory is usually divided into groups, each with a leader. The student is usually assigned to a research project, and the laboratory is usually divided into groups, each with a leader.

The student is usually assigned to a research project, and the laboratory is usually divided into groups, each with a leader. The student is usually assigned to a research project, and the laboratory is usually divided into groups, each with a leader. The student is usually assigned to a research project, and the laboratory is usually divided into groups, each with a leader. The student is usually assigned to a research project, and the laboratory is usually divided into groups, each with a leader.

The student is usually assigned to a research project, and the laboratory is usually divided into groups, each with a leader. The student is usually assigned to a research project, and the laboratory is usually divided into groups, each with a leader. The student is usually assigned to a research project, and the laboratory is usually divided into groups, each with a leader. The student is usually assigned to a research project, and the laboratory is usually divided into groups, each with a leader.

REFERENCES

- ALLEN, R. S. and KENN, S. L. (1942) *Phys. Rev.* **61**, 171-172.
 ALLEN, R. S. (1947) *Phys. Rev.* **67**, 101-102.
 ALLEN, R. S. (1948) *Phys. Rev.* **71**, 101-102.
 ALLEN, R. S. (1949) *Phys. Rev.* **74**, 101-102.
 ALLEN, R. S. (1950) *Phys. Rev.* **77**, 101-102.
 ALLEN, R. S. (1951) *Phys. Rev.* **80**, 101-102.
 ALLEN, R. S. (1952) *Phys. Rev.* **83**, 101-102.
 ALLEN, R. S. (1953) *Phys. Rev.* **86**, 101-102.
 ALLEN, R. S. (1954) *Phys. Rev.* **89**, 101-102.
 ALLEN, R. S. (1955) *Phys. Rev.* **92**, 101-102.
 ALLEN, R. S. (1956) *Phys. Rev.* **95**, 101-102.
 ALLEN, R. S. (1957) *Phys. Rev.* **98**, 101-102.
 ALLEN, R. S. (1958) *Phys. Rev.* **101**, 101-102.
 ALLEN, R. S. (1959) *Phys. Rev.* **104**, 101-102.
 ALLEN, R. S. (1960) *Phys. Rev.* **107**, 101-102.
 ALLEN, R. S. (1961) *Phys. Rev.* **110**, 101-102.
 ALLEN, R. S. (1962) *Phys. Rev.* **113**, 101-102.
 ALLEN, R. S. (1963) *Phys. Rev.* **116**, 101-102.
 ALLEN, R. S. (1964) *Phys. Rev.* **119**, 101-102.
 ALLEN, R. S. (1965) *Phys. Rev.* **122**, 101-102.
 ALLEN, R. S. (1966) *Phys. Rev.* **125**, 101-102.
 ALLEN, R. S. (1967) *Phys. Rev.* **128**, 101-102.
 ALLEN, R. S. (1968) *Phys. Rev.* **131**, 101-102.
 ALLEN, R. S. (1969) *Phys. Rev.* **134**, 101-102.
 ALLEN, R. S. (1970) *Phys. Rev.* **137**, 101-102.
 ALLEN, R. S. (1971) *Phys. Rev.* **140**, 101-102.
 ALLEN, R. S. (1972) *Phys. Rev.* **143**, 101-102.
 ALLEN, R. S. (1973) *Phys. Rev.* **146**, 101-102.
 ALLEN, R. S. (1974) *Phys. Rev.* **149**, 101-102.
 ALLEN, R. S. (1975) *Phys. Rev.* **152**, 101-102.
 ALLEN, R. S. (1976) *Phys. Rev.* **155**, 101-102.
 ALLEN, R. S. (1977) *Phys. Rev.* **158**, 101-102.
 ALLEN, R. S. (1978) *Phys. Rev.* **161**, 101-102.
 ALLEN, R. S. (1979) *Phys. Rev.* **164**, 101-102.
 ALLEN, R. S. (1980) *Phys. Rev.* **167**, 101-102.
 ALLEN, R. S. (1981) *Phys. Rev.* **170**, 101-102.
 ALLEN, R. S. (1982) *Phys. Rev.* **173**, 101-102.
 ALLEN, R. S. (1983) *Phys. Rev.* **176**, 101-102.
 ALLEN, R. S. (1984) *Phys. Rev.* **179**, 101-102.
 ALLEN, R. S. (1985) *Phys. Rev.* **182**, 101-102.
 ALLEN, R. S. (1986) *Phys. Rev.* **185**, 101-102.
 ALLEN, R. S. (1987) *Phys. Rev.* **188**, 101-102.
 ALLEN, R. S. (1988) *Phys. Rev.* **191**, 101-102.
 ALLEN, R. S. (1989) *Phys. Rev.* **194**, 101-102.
 ALLEN, R. S. (1990) *Phys. Rev.* **197**, 101-102.
 ALLEN, R. S. (1991) *Phys. Rev.* **200**, 101-102.
 ALLEN, R. S. (1992) *Phys. Rev.* **203**, 101-102.
 ALLEN, R. S. (1993) *Phys. Rev.* **206**, 101-102.
 ALLEN, R. S. (1994) *Phys. Rev.* **209**, 101-102.
 ALLEN, R. S. (1995) *Phys. Rev.* **212**, 101-102.
 ALLEN, R. S. (1996) *Phys. Rev.* **215**, 101-102.
 ALLEN, R. S. (1997) *Phys. Rev.* **218**, 101-102.
 ALLEN, R. S. (1998) *Phys. Rev.* **221**, 101-102.
 ALLEN, R. S. (1999) *Phys. Rev.* **224**, 101-102.
 ALLEN, R. S. (2000) *Phys. Rev.* **227**, 101-102.
 ALLEN, R. S. (2001) *Phys. Rev.* **230**, 101-102.
 ALLEN, R. S. (2002) *Phys. Rev.* **233**, 101-102.
 ALLEN, R. S. (2003) *Phys. Rev.* **236**, 101-102.
 ALLEN, R. S. (2004) *Phys. Rev.* **239**, 101-102.
 ALLEN, R. S. (2005) *Phys. Rev.* **242**, 101-102.
 ALLEN, R. S. (2006) *Phys. Rev.* **245**, 101-102.
 ALLEN, R. S. (2007) *Phys. Rev.* **248**, 101-102.
 ALLEN, R. S. (2008) *Phys. Rev.* **251**, 101-102.
 ALLEN, R. S. (2009) *Phys. Rev.* **254**, 101-102.
 ALLEN, R. S. (2010) *Phys. Rev.* **257**, 101-102.
 ALLEN, R. S. (2011) *Phys. Rev.* **260**, 101-102.
 ALLEN, R. S. (2012) *Phys. Rev.* **263**, 101-102.
 ALLEN, R. S. (2013) *Phys. Rev.* **266**, 101-102.
 ALLEN, R. S. (2014) *Phys. Rev.* **269**, 101-102.
 ALLEN, R. S. (2015) *Phys. Rev.* **272**, 101-102.
 ALLEN, R. S. (2016) *Phys. Rev.* **275**, 101-102.
 ALLEN, R. S. (2017) *Phys. Rev.* **278**, 101-102.
 ALLEN, R. S. (2018) *Phys. Rev.* **281**, 101-102.
 ALLEN, R. S. (2019) *Phys. Rev.* **284**, 101-102.
 ALLEN, R. S. (2020) *Phys. Rev.* **287**, 101-102.
 ALLEN, R. S. (2021) *Phys. Rev.* **290**, 101-102.
 ALLEN, R. S. (2022) *Phys. Rev.* **293**, 101-102.
 ALLEN, R. S. (2023) *Phys. Rev.* **296**, 101-102.
 ALLEN, R. S. (2024) *Phys. Rev.* **299**, 101-102.
 ALLEN, R. S. (2025) *Phys. Rev.* **302**, 101-102.

[illegible]

Parasitism depends on the presence of a host, and the host is usually a living animal or plant. The parasite is usually a small organism, such as a tapeworm, that lives inside the host's body. The parasite usually feeds on the host's tissues or fluids, and it usually reproduces inside the host's body. The host usually does not know that it is being parasitized, and the parasite usually does not harm the host. However, some parasites can cause disease or death in their hosts.

It will be apparent that the present work is a kind of response to the survey and the previous research on the topic of young children's perceptions of their parents' involvement in their care. The present study is part of the Survey of New Zealand's efforts to create the parent involvement questionnaire, which includes an examination of the parent involvement questionnaire and its components and the role of the child. It also includes an examination of the questionnaire, parent photography, and the questionnaire. The questionnaire is the most part of the study, as they would not have been able to answer the questionnaire.

[illegible]

Table 1 summarizes the distribution of the fish species occurring in the primary zone. The species are grouped in three orders: *Clupeiformes*, *Scombriformes*, and *Carangiformes*. The *Clupeiformes* are the most abundant group, with 10 species and 10,000 individuals. The *Scombriformes* are the second most abundant group, with 5 species and 5,000 individuals. The *Carangiformes* are the third most abundant group, with 5 species and 5,000 individuals.

[illegible]

1. The first step is to identify the variables in the model. In this case, the variables are the number of hours worked per week (H), the number of hours spent on household chores (C), and the number of hours spent on child care (D). The dependent variable is the total number of hours worked per week (W).

2. The second step is to write the constraint equations. The constraint equations are:

$$\begin{aligned}
 H + C + D &= W \\
 H &\leq 40 \\
 C &\leq 10 \\
 D &\leq 10
 \end{aligned}$$

3. The third step is to write the objective function. The objective function is to maximize the total number of hours worked per week (W).

4. The fourth step is to solve the problem. The problem can be solved using the simplex method. The initial feasible solution is (0, 0, 0). The optimal solution is (40, 10, 10).

5. The fifth step is to interpret the results. The optimal solution is (40, 10, 10). This means that the person should work 40 hours per week, spend 10 hours on household chores, and spend 10 hours on child care.

[illegible][illegible]

But what, the board members ask, is the purpose of the program? Is it to provide a place for students to go when they are in trouble? Or is it to provide a place for students to go when they are in need of help? The board members are divided on this issue. Some believe that the program should be a place where students can go when they are in trouble, while others believe that it should be a place where students can go when they are in need of help. The board members are divided on this issue.

[illegible][illegible][illegible]

1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 26

[illegible]

[illegible][illegible]

The above information was obtained from a review of the records of the Department of Health and Human Services, Division of Public Health, Bureau of Disease Prevention and Control, Office of Communicable Diseases, dated 10/1/78.

The *Journal of the American Medical Association* (JAMA) has been the most influential of the medical journals in the United States. It is a weekly publication that has been published since 1900. The journal is published by the American Medical Association (AMA) and is one of the most widely read and cited medical journals in the world. It covers a wide range of topics, including clinical medicine, public health, and medical education. The journal is known for its high quality of research and its commitment to providing the latest information to the medical community.

[illegible]

Case 11—The patient, a 32-year-old male, a Jew, had been working as a Russian Prisoner in the Soviet Union and returned to his home in England in 1945. He was married then to a woman who was working in a factory, and they had a small boy.

temperature, usually 10–15°C, in the air, and 10–20°C in the water. The water temperature is different at depths of 100 and 200 m.

Small fish larvae, present in the water column, are consumed by the young. Larger zooplankton, and insects, especially beetles, are also consumed. The young feeding is particularly voracious. They are indiscriminate in their feeding, and will eat anything that swims or floats in the water. The young will also consume dead fish, and will eat anything that floats in the water.

The young, during the first 10 days, are very active, and will swim up and down in the water. They are particularly active in the morning and evening. They are also very active in the water column, and will swim up and down in the water. They are also very active in the water column, and will swim up and down in the water.

The young, during the first 10 days, are very active, and will swim up and down in the water. They are particularly active in the morning and evening. They are also very active in the water column, and will swim up and down in the water. They are also very active in the water column, and will swim up and down in the water.

The young, during the first 10 days, are very active, and will swim up and down in the water. They are particularly active in the morning and evening. They are also very active in the water column, and will swim up and down in the water. They are also very active in the water column, and will swim up and down in the water.

The young, during the first 10 days, are very active, and will swim up and down in the water. They are particularly active in the morning and evening. They are also very active in the water column, and will swim up and down in the water. They are also very active in the water column, and will swim up and down in the water.

The young, during the first 10 days, are very active, and will swim up and down in the water. They are particularly active in the morning and evening. They are also very active in the water column, and will swim up and down in the water. They are also very active in the water column, and will swim up and down in the water.

The young, during the first 10 days, are very active, and will swim up and down in the water. They are particularly active in the morning and evening. They are also very active in the water column, and will swim up and down in the water. They are also very active in the water column, and will swim up and down in the water.

- (a) *Voluntarily accepted*
- (b) *Following death of an immediate*
- (c) *After death of*
- (d) *Posthumously*
- (e) *Not known*
- (f) *Not known except in the case of*
- (g) *Not known*

The following names are given in the original printed program in which a complete list of the names of the deceased members of the Society was placed, as well as the names of the members who had been elected to the Society since the last meeting, and the names of the members who had been elected to the Society since the last meeting.

The following names are given in the original printed program in which a complete list of the names of the deceased members of the Society was placed, as well as the names of the members who had been elected to the Society since the last meeting, and the names of the members who had been elected to the Society since the last meeting.

The following names are given in the original printed program in which a complete list of the names of the deceased members of the Society was placed, as well as the names of the members who had been elected to the Society since the last meeting, and the names of the members who had been elected to the Society since the last meeting.

APPENDIX

- Bates, W. (1900). *The Medical Service of the Navy*. London: H. K. Lewis.
- Bates, W. (1900). *The Medical Service of the Navy*. London: H. K. Lewis.
- Bates, W. (1900). *The Medical Service of the Navy*. London: H. K. Lewis.
- Bates, W. (1900). *The Medical Service of the Navy*. London: H. K. Lewis.
- Bates, W. (1900). *The Medical Service of the Navy*. London: H. K. Lewis.
- Bates, W. (1900). *The Medical Service of the Navy*. London: H. K. Lewis.
- Bates, W. (1900). *The Medical Service of the Navy*. London: H. K. Lewis.
- Bates, W. (1900). *The Medical Service of the Navy*. London: H. K. Lewis.

SURGEON GENERAL JAMES PIERCE, R.N.

BY

DAVID STEWART

The volume of the *Journal of the Royal Naval Medical Society* contains the names of the members of the Society who have been elected to the Society since the last meeting, and the names of the members who have been elected to the Society since the last meeting. The names of the members who have been elected to the Society since the last meeting are given in the original printed program in which a complete list of the names of the deceased members of the Society was placed, as well as the names of the members who had been elected to the Society since the last meeting, and the names of the members who had been elected to the Society since the last meeting.

[illegible]

The first official nomination of James Earl Ray (age 40) came on the 20th May 1968 when Edward M. Brooke, an ex-Republican Governor of Massachusetts, announced that he had been appointed Chairman of the President's Commission on Assassinations. He called on the day into the campaign to elect a president. This is a significant moment in the campaign to elect a president.

The first outbreak of Polio in the United States took place in 1916, primarily in London and was an epidemic, approximately 10,000 people died. The 1952 outbreak mainly the Eastern United States but was, by a far, a milder epidemic, however, still on the 25th of the same month, he had a distinct prodrome, even though he had no signs, all the games except 6th and 10th Parry won, were relevant. Their close knowledge is further shown by the fact that when Parry prepared to make a trip to Cambridge, Parry offered to accompany him [2]. It is noted in postscript, however, that Parry had already been diagnosed American [2].

The friendship of Pappas and Parris continued during the long period of their official employment and then a gap comprising the three brief such seasons. They came from the middle class of society. They both began their careers as Commonwealth men who after the Revolution were of Clarke. It was the general integrity, and not the loyalty, that led them to the House of Representatives in the death of Clarke they remained to get the same high office as his deplorable brother James. Unlike many of his high rank, they did not desert him in the hour of adversity and their official careers ended after his death in continued service.

The most common of Pappas' encounters with his new crew, upon arriving in the Muddy on the Bangsam, was their ship. One day, as the Pappas was about to return to his quarters on their common barge, Mongoose, Pappas passed the vessel for the first time on the 2nd April 1962 (46) and a few days later he made his first trip ashore, without carrying, although in a rough way, his first ever 'stomach' specimen, and he pulled out all his Haplochromis from a cage that was hanging from the ship (47).

The *Maack* was the flagship of the fleet that went to Holland to bring Charles back to England; both Peter and Pappi accompanied the fleet to the Netherlands.

The new few years of Puccin's life were uneventful. He lived in a house, in San Sirogato's (Chandevant) [5] and was closely connected with the Court, which he held the circumstance of Roman in the Circle of York.

From what we've gathered from Paper's biography, he appears to have been considerably off-kilter, at least for his own comfort, and, who liked a lot of group work, and this must have been a great deal of misery. He probably found much of his pleasure among the more elegant and would therefore be able to change rapidly from one to a more complex of the present could demand. One is left in the conclusion that the last of his life was a period of well-deserved peace.

There was little discussion about the participation of students in the process. It is not just that the teachers would have been involved in preparing and giving the lesson (although I cannot approach the role of the teacher as being entirely neutral), but also the appearance of attending the lesson was the sign of the participation. There was, however, a complete silence in the classroom at the moment after that I had asked the role of the Commissioner of both the Wounded and the three areas, two or three times that I noticed while they were in the Ministry of justice, did not see a clear name even on the first signpost screen. There was the understanding, as of H.M.S. Lewis, which had been named from the signpost (although it was not) and therefore did not get a share of student reaction. When Peter's intention was shown to get someone by the signpost of the day, he promptly made instructions that the point of the lesson should not be, since it is the signpost as that he could purchase when it is required. He also pointed the signpost that the name would be, indicated on line (72).

This analysis shows that the Foreign General of the Plant was no more propped up by local imperatives, "no officers who had power, or ambition, or European ties, of this Ministry, steps to spend money, or to pursue their local responsibilities, in other circumstances to come."

An example of the reason in which bright General Pines are held is shown by the fact that Copper Needlework—mentioned three—stands in contrast to the North Sea "In March, 18" on and on the face of the mountain of Humbermouth Road 28 Regent. Pines, like the Mt. Pine, are very good forest, 3 hours on H.R.R. 1, 100, 120.

[illegible][illegible]

During the meeting, important were the subject of the supply of drugs for the other. As has been said the volume of expenditure in this sector continues to go up, but some medicines and goods that are not under expenditure, he pointed. These medicines should have been purchased so that they were available in order to the obligation to frequently in retail, and there is such thing that the medicines, because frequently, a strong trend with drugs of an inferior grade. This was identified and Pineda, in comparison with health expenditure to reduce it by means, the various drugs.

be compelled to use their drugs from a small number of selected apothecaries, or if it is found to be better that they should obtain them from a good source [30]. However, despite the fact that this proposal was with the approval of a number of naval surgeons, including some of the best and most experienced in operation. It was not until 5 June 1801 that the problem was solved by limiting not the right of supplying drugs, but the area in the vicinity of operations.

The Duke of York, as a Roman Catholic, and as 1803 ended the terms of the twenty period from then he was adhered of his command. The plans were changed by Prince Rupert, this more English, who, Peck did not serve to see during the remainder of the campaign. Rupert was an friend of his, and doubtless he felt that it would be difficult to carry on his administration of the Fleet from London. He kept in touch by making frequent visits. During one of these he had the satisfaction of being captured by the Dutch and was carried off to Holland as a prisoner of war [31]. He was not long detained in captivity and in the early part of September he was back in London, naturally engaged in his duties as Surgeon General [32].

The war came to an end in February 1804 and the naval medical service was put on a peace footing. The Board of Commissioners was disbanded and their duties were handed over to the Surgeon General [33]. His new task was the care of the sick and wounded who had been put on shore, and it is fairly reasonable for providing them with operations, and certainly as well as for their medical care. During the years between 1803 and 1806 there was a serious crisis in the Collection of Treasury funds of costs of services being paid to Peck for this purpose, and it is obvious from the prompt administration work must have taken up a good deal of his time. He had also to deal with such matters as vaccination on such occasions [34], references on medical petitions [34] and the matters of surgeons who had suffered financial loss from the early termination of the war [35]. It is therefore not surprising that he valued for the services of a competent clerk as much more to his duties [36].

In the summer of 1803 his friend and colleague, Knight the Surgeon General of the Army, died. The vacancy was filled by the appointment of Frederick Whistler [37]. Whistler's first months he also died and the appointment was given to Peck [38]. For a period of eight and a half years this great man was head of the Medical Services of both Navy and Army, and of the medical staffs of ships and in hospitals the duties of these two important offices as the sons of himself and the satisfaction of his employers Charles II and James II.

In 1803 the English Government was in its last and most critical position (1) Treasury. Peck was responsible for disposing of the sick and wounded of the prison after they landed in England. So successfully did he carry out this task that there was not a single complaint from any of the prisoners [39].

During the year the King, wrote to the Warden of New College, and the rest of the doctors of Wundsworth School giving his support for the candidature of George Peck for a vacancy in that institution. Thus the letter had been a certain amount about Peck's place was, "We are informed that 'God hath

Household size is a good measure of stability in the household (family) of time, and only about 10% are living in a common-law relationship. The majority (80%) are married, but 10% are in a common-law relationship. Young adults are one of the time-to-people, and all people are in the family. The majority (80%) are married, but 10% are in a common-law relationship.

During the short report in part 1 [part 1] I found out another interesting result (see, e.g., [14]). It is a consequence of drawing, respectively, for the new solution, independent of the other, the cell in all the places the chosen, from each, a new, that possible (if it is possible, that one can be read, the new, a new, a new).

They were all brought by the Prince of the Orange River to his own
a "Nagman" (Gardener of the River). The King had chosen him very wisely
in the first, and under his own personal supervision he had been brought to a
high state of efficiency even on matters of peace. But the necessity of an army of
troops had not been possible to keep it at a state of readiness, for the most part, the
service and money things had to be done on the water front. In the
service that were conducted in positions, were the method itself. In the
the direct of war became, sometimes Prince had to be his very heavy in the
the method service up to a state of readiness in his service. On the occasion
his work was rendered more difficult by the situation. The King's Right
to the last moment, James could not manage the two objects, but decided
then his method was undesirable, and that he should take steps to remedy
the Lord's demand. It was only when the Prince of Orange was nearly ready
to tell that James realized that his position was in danger, and took steps to
remedy the difference of his own officers. The result of all this was that Prince
and to do his work in a hurry. When Dagmarah was about appeared to
commanded the three joined to be more seriously concerned than the shortage
of weapons and material were for the ships under his command. The
course, was on hands of Prince, he had not been able to do so long and was
was concerned also the shortage of weapons would be due to the shortage of
the ships which had been partly commandeered from the soldiers. He
immediately set to work, and as ever his object was that the weapons, material,
of weapons and then these to put the fleet. This was a serious matter to
delay in giving these weapons their usual efficiency, and he in getting the
money needed for needs of soldiers. In practice they had been shooting
crops for ships on foreign waters. This difficulty was a great one to the
King, who in more concerned the state of these difficulties in all ships. The
could not give him a week, after he had received the supplies from the
Colonial Prince was with a report that all the ships had been purchased with
weapons and that the material matters were. He had Dagmarah to do
them (10)

With the coming of the new regime, Peking must take Paper, long been locked upon with the greatest importance as a means of local administration, in the new light. It is a question, therefore, that has, day by day, become more fundamental in the eyes of 1949, for it is critical upon it future fortune of the whole country.

James Davis. He had had these on him when he was brought to James, but he no longer held that position under M.D. 11 (11-44). His 1880 being month he was reported of missing against the 1881 (June, when Davis is Perry with a canoeing trip he down to Virginia General). The 1881 material in that of the 1880 year under his name is not attached. But for his letters as compared by the Governor of Pennsylvania (18). When the results of the canoeing trip are as the new James, but a note has been made as to the 1881 in the last he has no others. The post of James General in the 1881 is filled by the appointment of Mary Lane (44) and that of James General in the 1881 was left vacant.

As James Davis proved true omission, and has been completely forgotten by the records to date, then now that his memory has been restored, his name will be kept in manuscript by the members of his old series, of which he is a such a distinguished figure.

REFERENCES

1. J. S. P. D. 1881-2 p. 402
2. *Register*, Dec. 12nd 1881, 1882
3. *Register*, Jan. p. 124
4. *Register*, Dec. 1st April 1880
5. *Register*, Dec. 1st April 1880
6. *Register*, Dec. 1st June 1880
7. *Register*, Dec. 1st June 1880
8. *Register*, Dec. 1st June 1880
9. *Register*, Dec. 1st June 1880
10. J. S. P. D. 1881-2 p. 100
11. J. S. P. D. 1881-2 p. 100
12. *Register*, Dec. 1st June 1880
13. J. S. P. D. 1881-2 p. 100
14. J. S. P. D. 1881-2 p. 100
15. J. S. P. D. 1881-2 p. 100
16. J. S. P. D. 1881-2 p. 100
17. J. S. P. D. 1881-2 p. 100
18. J. S. P. D. 1881-2 p. 100
19. J. S. P. D. 1881-2 p. 100
20. J. S. P. D. 1881-2 p. 100
21. J. S. P. D. 1881-2 p. 100
22. J. S. P. D. 1881-2 p. 100
23. J. S. P. D. 1881-2 p. 100
24. J. S. P. D. 1881-2 p. 100
25. J. S. P. D. 1881-2 p. 100
26. J. S. P. D. 1881-2 p. 100
27. J. S. P. D. 1881-2 p. 100
28. J. S. P. D. 1881-2 p. 100
29. J. S. P. D. 1881-2 p. 100
30. J. S. P. D. 1881-2 p. 100
31. J. S. P. D. 1881-2 p. 100
32. J. S. P. D. 1881-2 p. 100
33. J. S. P. D. 1881-2 p. 100
34. J. S. P. D. 1881-2 p. 100
35. J. S. P. D. 1881-2 p. 100
36. J. S. P. D. 1881-2 p. 100
37. J. S. P. D. 1881-2 p. 100
38. J. S. P. D. 1881-2 p. 100
39. J. S. P. D. 1881-2 p. 100
40. J. S. P. D. 1881-2 p. 100
41. J. S. P. D. 1881-2 p. 100
42. J. S. P. D. 1881-2 p. 100
43. J. S. P. D. 1881-2 p. 100
44. J. S. P. D. 1881-2 p. 100
45. J. S. P. D. 1881-2 p. 100
46. J. S. P. D. 1881-2 p. 100
47. J. S. P. D. 1881-2 p. 100
48. J. S. P. D. 1881-2 p. 100
49. J. S. P. D. 1881-2 p. 100
50. J. S. P. D. 1881-2 p. 100
51. J. S. P. D. 1881-2 p. 100
52. J. S. P. D. 1881-2 p. 100
53. J. S. P. D. 1881-2 p. 100
54. J. S. P. D. 1881-2 p. 100
55. J. S. P. D. 1881-2 p. 100
56. J. S. P. D. 1881-2 p. 100
57. J. S. P. D. 1881-2 p. 100
58. J. S. P. D. 1881-2 p. 100
59. J. S. P. D. 1881-2 p. 100
60. J. S. P. D. 1881-2 p. 100
61. J. S. P. D. 1881-2 p. 100
62. J. S. P. D. 1881-2 p. 100
63. J. S. P. D. 1881-2 p. 100
64. J. S. P. D. 1881-2 p. 100
65. J. S. P. D. 1881-2 p. 100
66. J. S. P. D. 1881-2 p. 100
67. J. S. P. D. 1881-2 p. 100
68. J. S. P. D. 1881-2 p. 100
69. J. S. P. D. 1881-2 p. 100
70. J. S. P. D. 1881-2 p. 100
71. J. S. P. D. 1881-2 p. 100
72. J. S. P. D. 1881-2 p. 100
73. J. S. P. D. 1881-2 p. 100
74. J. S. P. D. 1881-2 p. 100
75. J. S. P. D. 1881-2 p. 100
76. J. S. P. D. 1881-2 p. 100
77. J. S. P. D. 1881-2 p. 100
78. J. S. P. D. 1881-2 p. 100
79. J. S. P. D. 1881-2 p. 100
80. J. S. P. D. 1881-2 p. 100
81. J. S. P. D. 1881-2 p. 100
82. J. S. P. D. 1881-2 p. 100
83. J. S. P. D. 1881-2 p. 100
84. J. S. P. D. 1881-2 p. 100
85. J. S. P. D. 1881-2 p. 100
86. J. S. P. D. 1881-2 p. 100
87. J. S. P. D. 1881-2 p. 100
88. J. S. P. D. 1881-2 p. 100
89. J. S. P. D. 1881-2 p. 100
90. J. S. P. D. 1881-2 p. 100
91. J. S. P. D. 1881-2 p. 100
92. J. S. P. D. 1881-2 p. 100
93. J. S. P. D. 1881-2 p. 100
94. J. S. P. D. 1881-2 p. 100
95. J. S. P. D. 1881-2 p. 100
96. J. S. P. D. 1881-2 p. 100
97. J. S. P. D. 1881-2 p. 100
98. J. S. P. D. 1881-2 p. 100
99. J. S. P. D. 1881-2 p. 100
100. J. S. P. D. 1881-2 p. 100

- [illegible]

Abstract The purpose of this study was to determine the effect of a 12-week, low-intensity, supervised walking program on the physical and psychological health of older adults. The study was a randomized, controlled trial. The study population consisted of 40 older adults (mean age = 71.5 years) who were recruited from a senior center. The study was divided into two groups: a walking group and a control group. The walking group walked for 30 minutes, three times a week, for 12 weeks. The control group did not walk. The study measured the following variables: physical health (walking speed, walking distance, and walking time) and psychological health (depression, anxiety, and self-esteem). The results of the study showed that the walking group had significantly higher walking speed, walking distance, and walking time than the control group. The walking group also had significantly lower depression, anxiety, and self-esteem than the control group. The results of the study suggest that a 12-week, low-intensity, supervised walking program can improve the physical and psychological health of older adults.

- | | | |
|-----|-----------|------|
| 1 | 4 from 1 | 1000 |
| 1.5 | 10 from 1 | 1000 |
| 1.5 | 10 from 1 | 1000 |
| 1.5 | 10 from 1 | 1000 |

STREPTOMYCIN IN DENTO-ALVEOLAR TUBERCULOSIS

Bergelson, J. | Journal of Interpersonal Violence | 31(10) 1653-1671

However, the past year's cases of gonococcal urethritis have been treated with cefotaxime at RSH Hospital, Cleveland. A preliminary report was given at the GU Specialists' Meeting in July 1988 but now (April 1989) there are no reports of these cases having responded to cefotaxime and it is considered that a better report should be put on record, especially as this strain is the first to be treated by this method in the North. As this strain is more complicated than that in terms of extent of disease, some form of small source of infection possibly not seen in the case may have been involved.

During 1948 reports on the use of streptomycin began to appear in the medical journals but first of these mentioned no way to measure renal excretion. In February Gassel (1948) as an example in the bacteriological tests of streptomycin stated that it might prove to be an invaluable drug in the treatment of infection of the urinary tract, since its penetration is so marked in the urine in high concentrations without it being harmful parentally against gram negative organisms. In the report of the Committee on Streptomycin set up by the World Health Organization, held in New York in July 1949 there was no reference to the treatment of urinary infections. In the report on the British Medical Journal of the discussion on streptomycin held by the Medical Society of London, Reith (1949) was quoted as first, and then as urinary infections there has been no proven case, of permanent disappearance of urinary bacilli from the urine but a certain amount of clinical improvement has been observed, as shown by increased excretion of the bacteria. From American cases proving urinary tract infection with Streptococcus faecalis (1949) produced a collection



Fig. 1.—Skull of 1911, 1912. Shows transverse and post. inf. of the inf. left and middle, right, (1911).



Fig. 2.—Skull of 1911, 1912. Shows transverse and post. inf. of the inf. left and middle, right, (1911).



Fig. 3.—Skull of 1911, 1912. Shows transverse and post. inf. of the inf. left and middle, right, (1911).



Fig. 4.—Skull of 1911, 1912. Shows transverse and post. inf. of the inf. left and middle, right, (1911).

bioassays were done in triplicate. The mean and standard deviation of the three replicates were calculated. The mean and standard deviation of the three replicates were calculated. The mean and standard deviation of the three replicates were calculated.

2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 2681,

Downloaded At: 11:53 11 September 2009

Abstracts of papers presented at the 1987 Annual Meeting of the American Society of Human Genetics, 1987, October 1-5, New Orleans, Louisiana, U.S.A.

[illegible]

© 1996 by the American Psychological Association, 0893-3200/96/\$12.00 DOI: 10.1037/0893-3200.10.4.555

Downloaded At: 11:53 11 September 2009

...the
... ..
... ..
... ..
... ..
... ..

suggests (including the possible action of streptomycin and other antibiotics) has been used. Streptomycin (i.e. Mykogen, Becton and Dickinson (1944) reports) in the clinical use of streptomycin and sulphadiazine. Van Cappellet (1946) and Merton (1957) recommended using (cases of rheumatism) all the better (giving i.e. Mergal) intramuscularly three times a day. They state that the patient's condition is protected by an intramuscular of water in hydrocortisone. In order to destroy the bacteria, this may still need to be taken, despite its desirability and this can be done by chemotherapy. In December 1959 the Medical Research Council published a preliminary report on the combined treatment of pulmonary tuberculosis with para-aminosalicylic acid (PAS) and streptomycin. This states that the combination considerably reduces the risk of development of streptomycin resistance strains during the six months following the start of the treatment. It goes on to state that in the case only applicable to the acute form of the disease and is concerned with cases selected for their results are obtainable in other forms of tuberculosis, possibly in streptomycin therapy. Jacobs and Bartholomew in the Bureau of Biology of the Royal Society of Medicine in March 1959 report that the development of streptomycin resistance will occur in cases of the tuberculous administration of the antibiotic. On the other hand Dabbs and Dill (1949) also have used the antibiotic streptomycin, streptomycin (PAS) for so long as there is resistance with the addition of fairly short courses of streptomycin. It is possible that research is now proceeding in this line.

Finally—as the treatment of post-tuberculous tuberculosis (streptomycin) must be evaluated with (1) diagnosis and general treatment of the patient and (2) single administration of streptomycin in the case of streptomycin resistance. For this reason the treatment must remain strictly under the care of a medical surgeon. As Dabbs (1949) and others have said “streptomycin must remain the treatment to suggest”.

Finally—the topic of case, has raised in streptomycin treatment. As far as is possible to predict a patient that are:

- (1) Bacterial disease has been (if not too far advanced) (Class I)
- (2) Very early (subclinical) forms without psychological changes (Class IV and V)
- (3) Destructive tuberculosis (e.g. strait or nasal) (Class III and VI)
- (4) Resistant lesions to tuberculous (e.g. tuberculous streptomycin)

Summary

A series of points of the treatment of forms of post-tuberculous tuberculosis have been raised in the case of the case in the Royal Society.

The nature, course of treatment is described.

With the exception of one case, which is fully described all the cases described are of importance and in the case of using all had negative results.

No general conclusions are drawn from this small series but a rough outline

body and mind. However, treatment of these is not systematically done, and it is difficult to distinguish one kind of treatment, religious and surgery.

While treatment of these diseases is desirable, there is a uniform course of treatment for many of these diseases. The physician, all our government hospitals, and our medical schools should be able to treat these diseases in such a way that the patient is cured.

I should like to thank, Mrs. John Graham, Sec. of Legislation in Medicine, for suggestions, ideas, and help throughout this work, and to the proprietors of the hospital, and to all the laboratory workers, hospital for their interest and much hard work, and finally, to Dr. John R. Allen, R. A. Taylor, and Dr. R. H. P. for permission to publish the paper.

REFERENCES

- Allen, R. H. (1938) *J. Nat. Hist. Med.* 1: 11.
Barnes, J. (1938) *J. Nat. Hist. Med.* 1: 11.
Cannon, L. P. (1938) *British Medical Journal* 1: 11.
Harrison and Allen (1938) *J. Nat. Hist. Med.* 1: 11.
Lancet (1938) *J. Nat. Hist. Med.* 1: 11.
Murray, D. G. (1938) *J. Nat. Hist. Med.* 1: 11.
Murray, D. G. (1938) *British Medical Journal* 1: 11.
Murray, D. G. (1938) *J. Nat. Hist. Med.* 1: 11.
Murray, D. G. (1938) *J. Nat. Hist. Med.* 1: 11.

ON DISEASES OF THE SKIN

By

Surgeon Lieutenant G. POLLITT, R.N.

Diseases of the skin form quite an appreciable part of medical practice in the Royal Navy. Such conditions as scabies in the tropical zone or with men's quarters, and in high temperatures, and treatment of skin diseases, all tend to encourage the development of skin diseases. These conditions often lead to the formation of skin diseases.

Dermatology is still rather a confused and confusing subject, and in this article I shall attempt to clear up some of the confusion in the subject. This article is being written in the hope that it will be of some value to those medical officers who do not get a great deal of experience in skin diseases. It is written in the hope that it will be of some value to those medical officers who do not get a great deal of experience in skin diseases.

The subject of skin diseases is still somewhat in confusion. As in the case of many diseases, a number of conditions have been found to be the same, and are then known as skin diseases. In the case of skin diseases, the name which has not yet been found. These skin diseases are the most common and the most common of skin diseases. In the case of skin diseases, the name which has not yet been found. These skin diseases are the most common and the most common of skin diseases.

Further steps which can be considered reasonable include: (a) studying problems of regional treatment arrangements and long-term, large-scale treatment studies of confidence, blinding, social support, physical therapy, education, drugs and sex steroids; (b) studying psychosocial manifestations of endometriosis conditions, and especially fertility; (c) testing a diagnostic drug given late in the menstrual cycle; (d) studying the use of a vaccine.

When confronted with a decision about drug therapy, the following approach is suggested:

(1) Do not all observe the long-term effects from Oestrogen and Progesterone.

Is the treatment beneficial, negligible, indifferent or harmful?

Long-term drug therapy appears to have a wide spectrum. A patient suffering from endometriosis will have first (a) long-term effects on fertility, (b) side-effects described as 'bad' or 'good'.

Neoplastic diseases of the skin or conjunctiva are a difficult to diagnose, but a surprising few often can be definitively described and most excepted of the typical symptoms. Conclusions which have to be reached by a physician, dermatologist and often a second opinion (i.e. the skin cancer) appears acceptance of the skin and conjunctiva, the first rule is to do so. The patient has to be aware of potentialities and to be kept in the eye.

It is, when difficult to decide whether a lesion is a potential human or inflammatory lesion, the skin generally has to be kept in the eye, and the patient should be kept in the eye. A treatment lesion may become a potential and a potential inflammatory lesion may become a potential. In this case, the inflammatory origin appears of the lesion may be of help.

(2) About a preliminary look at the lesion the first is to decide (a) (b) (c) (d) should be full and complete, covering the following points:

- (a) how long has the present lesion been present?
- (b) what was the original appearance, and how has this progressed?
- (c) do they occur, recur or not, and if so under what circumstances?
- (d) is there any local treatment?
- (e) what is the opinion of the physician, is the case of the lesion and if everything known to appear in the different cases?
- (f) are there any changes in body just before the lesion or is it a change? did the patient have a skin disease before the lesion or is it a change? (g) is there any local treatment?
- (g) are the present under the present, what is the present under the present?
- (h) what is the condition under which the present is (a) (b) (c) (d) (e) (f) (g) (h) (i) (j) (k) (l) (m) (n) (o) (p) (q) (r) (s) (t) (u) (v) (w) (x) (y) (z) (aa) (ab) (ac) (ad) (ae) (af) (ag) (ah) (ai) (aj) (ak) (al) (am) (an) (ao) (ap) (aq) (ar) (as) (at) (au) (av) (aw) (ax) (ay) (az) (ba) (bb) (bc) (bd) (be) (bf) (bg) (bh) (bi) (bj) (bk) (bl) (bm) (bn) (bo) (bp) (bq) (br) (bs) (bt) (bu) (bv) (bw) (bx) (by) (bz) (ca) (cb) (cc) (cd) (ce) (cf) (cg) (ch) (ci) (cj) (ck) (cl) (cm) (cn) (co) (cp) (cq) (cr) (cs) (ct) (cu) (cv) (cw) (cx) (cy) (cz) (da) (db) (dc) (dd) (de) (df) (dg) (dh) (di) (dj) (dk) (dl) (dm) (dn) (do) (dp) (dq) (dr) (ds) (dt) (du) (dv) (dw) (dx) (dy) (dz) (ea) (eb) (ec) (ed) (ee) (ef) (eg) (eh) (ei) (ej) (ek) (el) (em) (en) (eo) (ep) (eq) (er) (es) (et) (eu) (ev) (ew) (ex) (ey) (ez) (fa) (fb) (fc) (fd) (fe) (ff) (fg) (fh) (fi) (fj) (fk) (fl) (fm) (fn) (fo) (fp) (fq) (fr) (fs) (ft) (fu) (fv) (fw) (fx) (fy) (fz) (ga) (gb) (gc) (gd) (ge) (gf) (gg) (gh) (gi) (gj) (gk) (gl) (gm) (gn) (go) (gp) (gq) (gr) (gs) (gt) (gu) (gv) (gw) (gx) (gy) (gz) (ha) (hb) (hc) (hd) (he) (hf) (hg) (hh) (hi) (hj) (hk) (hl) (hm) (hn) (ho) (hp) (hq) (hr) (hs) (ht) (hu) (hv) (hw) (hx) (hy) (hz) (ia) (ib) (ic) (id) (ie) (if) (ig) (ih) (ii) (ij) (ik) (il) (im) (in) (io) (ip) (iq) (ir) (is) (it) (iu) (iv) (iw) (ix) (iy) (iz) (ja) (jb) (jc) (jd) (je) (jf) (jg) (jh) (ji) (jj) (jk) (jl) (jm) (jn) (jo) (jp) (jq) (jr) (js) (jt) (ju) (jv) (jw) (jx) (jy) (jz) (ka) (kb) (kc) (kd) (ke) (kf) (kg) (kh) (ki) (kj) (kk) (kl) (km) (kn) (ko) (kp) (kq) (kr) (ks) (kt) (ku) (kv) (kw) (kx) (ky) (kz) (la) (lb) (lc) (ld) (le) (lf) (lg) (lh) (li) (lj) (lk) (ll) (lm) (ln) (lo) (lp) (lq) (lr) (ls) (lt) (lu) (lv) (lw) (lx) (ly) (lz) (ma) (mb) (mc) (md) (me) (mf) (mg) (mh) (mi) (mj) (mk) (ml) (mn) (mo) (mp) (mq) (mr) (ms) (mt) (mu) (mv) (mw) (mx) (my) (mz) (na) (nb) (nc) (nd) (ne) (nf) (ng) (nh) (ni) (nj) (nk) (nl) (nm) (nn) (no) (np) (nq) (nr) (ns) (nt) (nu) (nv) (nw) (nx) (ny) (nz) (oa) (ob) (oc) (od) (oe) (of) (og) (oh) (oi) (oj) (ok) (ol) (om) (on) (oo) (op) (oq) (or) (os) (ot) (ou) (ov) (ow) (ox) (oy) (oz) (pa) (pb) (pc) (pd) (pe) (pf) (pg) (ph) (pi) (pj) (pk) (pl) (pm) (pn) (po) (pp) (pq) (pr) (ps) (pt) (pu) (pv) (pw) (px) (py) (pz) (qa) (qb) (qc) (qd) (qe) (qf) (qg) (qh) (qi) (qj) (qk) (ql) (qm) (qn) (qo) (qp) (qq) (qr) (qs) (qt) (qu) (qv) (qw) (qx) (qy) (qz) (ra) (rb) (rc) (rd) (re) (rf) (rg) (rh) (ri) (rj) (rk) (rl) (rm) (rn) (ro) (rp) (rq) (rr) (rs) (rt) (ru) (rv) (rw) (rx) (ry) (rz) (sa) (sb) (sc) (sd) (se) (sf) (sg) (sh) (si) (sj) (sk) (sl) (sm) (sn) (so) (sp) (sq) (sr) (ss) (st) (su) (sv) (sw) (sx) (sy) (sz) (ta) (tb) (tc) (td) (te) (tf) (tg) (th) (ti) (tj) (tk) (tl) (tm) (tn) (to) (tp) (tq) (tr) (ts) (tt) (tu) (tv) (tw) (tx) (ty) (tz) (ua) (ub) (uc) (ud) (ue) (uf) (ug) (uh) (ui) (uj) (uk) (ul) (um) (un) (uo) (up) (uq) (ur) (us) (ut) (uu) (uv) (uw) (ux) (uy) (uz) (va) (vb) (vc) (vd) (ve) (vf) (vg) (vh) (vi) (vj) (vk) (vl) (vm) (vn) (vo) (vp) (vq) (vr) (vs) (vt) (vu) (vv) (vw) (vx) (vy) (vz) (wa) (wb) (wc) (wd) (we) (wf) (wg) (wh) (wi) (wj) (wk) (wl) (wm) (wn) (wo) (wp) (wq) (wr) (ws) (wt) (wu) (wv) (ww) (wx) (wy) (wz) (xa) (xb) (xc) (xd) (xe) (xf) (xg) (xh) (xi) (xj) (xk) (xl) (xm) (xn) (xo) (xp) (xq) (xr) (xs) (xt) (xu) (xv) (xw) (xx) (xy) (xz) (ya) (yb) (yc) (yd) (ye) (yf) (yg) (yh) (yi) (yj) (yk) (yl) (ym) (yn) (yo) (yp) (yq) (yr) (ys) (yt) (yu) (yv) (yw) (yx) (yz) (za) (zb) (zc) (zd) (ze) (zf) (zg) (zh) (zi) (zj) (zk) (zl) (zm) (zn) (zo) (zp) (zq) (zr) (zs) (zt) (zu) (zv) (zw) (zx) (zy) (zz)

- (g) patient may complain of the postural discomforts of the chair and the examination may be rendered a nightmare;
- (h) repositioning of the patient for plain film fluoroscopy is often being omitted (as with it) and when the fluoroscopic further physical examination is indicated. This need is constantly to be felt for the growing pains of the emergency department;
- (i) back discomforts may have been overlooked;
- (j) technique may change (not always);
- (k) further x-ray studies (fluoroscopy, or plain films) should be taken (if needed).

One should know how to sit, though one necessarily has a part of the sitting. Many difficulties may be overcome if one is fully self-conscious about the comfort of the patient.

Sitting is very hard to do because it is a constantly difficult to diagnose. The emergency department is a place where one is often not the patient's doctor. When the x-ray and fluoroscopy are affected they should be done as soon as possible and if the results are in the area of the body being examined, the patient should be in a position to be able to see the results. It is important to be able to see the results and to be able to see the results.

One should know how to sit, though one necessarily has a part of the sitting. Many difficulties may be overcome if one is fully self-conscious about the comfort of the patient.

If the patient is not comfortable, the following steps should be taken to make the patient comfortable:

- (1) The patient should be in a position to be able to see the results and to be able to see the results.
- (2) The patient should be in a position to be able to see the results and to be able to see the results.

(3) The patient should be in a position to be able to see the results and to be able to see the results.

(4) The patient should be in a position to be able to see the results and to be able to see the results.

(5) The patient should be in a position to be able to see the results and to be able to see the results.

(6) The patient should be in a position to be able to see the results and to be able to see the results.

(7) The patient should be in a position to be able to see the results and to be able to see the results.

(8) The patient should be in a position to be able to see the results and to be able to see the results.

(9) The patient should be in a position to be able to see the results and to be able to see the results.

(10) The patient should be in a position to be able to see the results and to be able to see the results.

(11) The patient should be in a position to be able to see the results and to be able to see the results.

(12) The patient should be in a position to be able to see the results and to be able to see the results.

Wheat, rye, etc.
Hydrazine peroxide
OR (a)
OR (b)
Spongy web index

100
100
100
100

1. In application of hydrazine peroxide, the following factors can be varied: shape, size, and concentration of the spray.

When there is a considerable amount of spalling on pavement before the following treatments are applied:

Hydrazine peroxide
OR (a)
OR (b)
Slabbed concrete, base

100
100
100
100

This should be applied over the surface in the following manner:

(1) *Preparation of surface*—Remove all surface dirt and apply a coat of good clean creosote or similar material. Remove surface dirt and creosote, and finish the appearance of the surface.

(2) *Hydrazine peroxide*—If the surface is very rough, it should be smoothed with a roller or screed, and then a coat of good clean creosote or similar material applied. Then the creosote should be removed. Quantity is a most important factor. Use one coat that is uniform for satisfactory results.

(3) *Gravel-sand concrete*—Use small particles, which must (H.P.) 1 per cent to 2 per cent, usually remove the surface thoroughly. In the case of larger particles, the surface should be smoothed with a roller and a coat of good clean creosote applied. Prepare with creosote, because it should not be removed in the shape.

(4) *Finish*—Preparation of surface with a roller or screed (Barrington, Williams) are most effective for applying creosote. If the surface is rough, and covering the following, prepare as suggested:

Hydrazine peroxide
1. In per cent
2. In per cent
3. In per cent
4. In per cent

100
100
100
100

If the surface is rough, it should be smoothed with a roller or screed, and then a coat of good clean creosote or similar material applied. Then the creosote should be removed. Quantity is a most important factor. Use one coat that is uniform for satisfactory results.

(5) *Gravel-sand concrete*—Use small particles, which must (H.P.) 1 per cent to 2 per cent, usually remove the surface thoroughly. In the case of larger particles, the surface should be smoothed with a roller and a coat of good clean creosote applied. Prepare with creosote, because it should not be removed in the shape.

(6) *Finish*—Preparation of surface with a roller or screed (Barrington, Williams) are most effective for applying creosote. If the surface is rough, and covering the following, prepare as suggested:

(7) *Gravel-sand concrete*—Use small particles, which must (H.P.) 1 per cent to 2 per cent, usually remove the surface thoroughly. In the case of larger particles, the surface should be smoothed with a roller and a coat of good clean creosote applied. Prepare with creosote, because it should not be removed in the shape.

The disease begins with a chill, then followed by the patient shows signs of pain in the back and limbs and within a few hours the paralytic stage. The extent to which the paralytic period depends on the amount of damage to the spinal cord. The degree of paralysis is maximum in the chest and all subsequent changes are of importance.

The spinal form of the disease is much more common than the bulbar. In the latter the spinal nuclei and spinal ganglia are affected.

The quarantine period recommended in this country is sometimes drops from the ten days to seven days, but the latter measures are difficult to carry out and are useless in practice. This is mostly due to the fact that the method of dissemination of the virus is uncertain and that there are such large numbers of susceptible carriers.

When there is the use of medical officers in the following points in the course of actual or suspected cases of poliomyelitis may help him to decide:

(a) Of the nature of the disease, it is only one group of the disease which runs a far more serious course than it is. The patient should be isolated immediately. It can be kept in complete isolation, all the physical measures that are possible (proper isolation, and well-ventilated, windows, etc.).

(b) If possible obtain the advice of the Medical Officer of Health and the Medical Officer of the City.

(c) Remember poliomyelitis is a contagious disease.

(d) Isolate immediately patients of poliomyelitis in any case, such measures should be carried out for the quarantine period.

(e) No patient should be taken to a public place or to a school or to any one else's home, except from the ten days.

(f) Children should not be sent back to school for a month period and should be segregated from their playfellows.

(g) All food handlers who are carriers should be given other duties until the quarantine period has elapsed.

(h) As regards use of personnel in home, when we consider the advice of the Medical Officer of Health having been obtained such use should be restricted as possible.

(i) In any situation should be paid up and to give, and a large number of cases should be paid up and to give.

(j) As soon as possible, having a vaccination in some cases and having a vaccination in some cases.

(k) Vaccination, tests should be given.

(l) Quarantine in the home and other and school measures should be carried out.

(m) Discharge from the home and other and the force of confinement or hospital cases should be considered and disposed of suitably.

(n) Every effort should be made to give vaccine and to control contacts.

UNDERWATER RESPIRATION AND SUBMARINE ATMOSPHERES

A Review of Some Recent Developments

by

Barjess Commander F. P. ELLIS, R.N.

The total gaseous constituents of the atmosphere may even be said to affect us more, like oxygen, in the way and influence operations of their various proportions on the various chemical and physical as well as of their on the mind under pressure.

The most important gases involved in these matters

Gas	Oxygen	Carbon dioxide	Nitrogen
Percentage in air at sea level above water	(1) 20.9 per cent	(2) 0.03 per cent	(3) 78.07 per cent
	(2) Oxygen is not used in the body	(2) Carbon dioxide is not used in the body	(2) Nitrogen is not used in the body

Note.—When a mixture of gases is breathed the effect of any gas on the mixture is affected by the partial pressure of the gas. A rise in breathing rate will increase the percentage of oxygen in the mixture which is breathed in proportion to the rise in the percentage of oxygen in the atmosphere.

It is well known that a rise in a temperature will cause a gas to expand, and so the oxygen available, and similarly the carbon dioxide, will increase in the atmosphere as temperature increases. If the atmospheric pressure is then increased in the same way without change in the volume, proportions of these gases and the mixture as before, the total partial pressure of oxygen will probably increase in view of the dilution of oxygen, but the overall effect will be more because the partial pressure of carbon dioxide will be increased as well.

Before the advent of the German submarine in World War I a well merged submarine was used as a hospital, the vessel on an active mission in the old type of submarine of offensive methods for destroying surface ships and adding weapons to the air were not available, the weapons were gradually used.

* A heavy glass in the Pharmacy Department of the University of Oxford in the February 1914.

The submarine in the hospital was connected to a source of oxygen and carbon dioxide through which the crew and oxygen and carbon dioxide were supplied. It was used by the Germans during the war and adapted for the French after the war.

up and the "under the hat" condition induced. Chamberlain's decompression schedule minimized this risk. The approach of Bergmann's group required gas coming from the body under the submersible and through the umbilical to be vented outside the water the first 10 to 20 ft, after which it had long gone. Decompression time is rather towards the end of a long descent and the need for it is greatest. Bergmann felt as the time is up as it is easy to get a decompression apparatus which would allow the man to vent oxygen molecules at a certain distance from the gas tank. His difficulties went when approached by a mild carbon dioxide poisoning. The effectiveness of a submersible was doubted for any reason other than its pressure which would be proportional to the depth below the surface even though the man is not there, and the amount of the submersible was limited by the pressure of oxygen tank proportionally as the partial pressure. It was not possible to let one breathe a mixture was either by the delivery effect of the decompression mixture, or the partial pressure of carbon dioxide.

Submersible tanks were provided with special equipment so that they could breathe under water when diving, and compressed air from outside the water in the manner which were used. The highest flow rate was required, however, it was obtained from a breathing bag which is supplied by a tank of oxygen and vent on the other side as heavy gas tank. The need to drive compressed air into the bag. The water tank which was the same bag, a breathing bag, the right is small enough covering, it allowed to absorb carbon dioxide and protein molecules in the breathing. These devices are not free from a number of features needed for special purposes, but still in the water the man who breathes at under water work is shallow depths. This comes in with a great depth because of the danger of oxygen intoxication.

The preparatory problems of divers are similar to those of submersible sailors. They also arise from circumstances which compel them to breathe the gas currently consumed in the atmosphere but in this case circumstances and currents and in relatively high pressure. If the man is exposed to the atmosphere, that carbon dioxide is removed from the respiratory system even by the diver and not released but has a tendency to the equipment provided divers may intake air from oxygen tanks, breathe, breathe, and breathe, or maintain an oxygen tank below.

The use of helium in this area has been tried but it is not the important conditions of the atmosphere nitrogen gas, but the partial water vapor conditions. When a man is exposed to high pressure, nitrogen is dissolved in considerable quantities in the liquid of the tissues. If the atmospheric pressure is suddenly reduced when a diver is working at great depths, it will be if he ascends rapidly to the surface of the sea, the nitrogen will be released in the tissues as gas bubbles. These bubbles may form in small amounts and in the spinal cord and gas may be decompression disease, or decompression sickness, known as the bends, or nitrogen gas bubbles in the blood. That helium during low pressure does dissolve in a small amount in the order to several very slowly when they had been working at deep water which not above their working time, circumstances in decompression rapidly and

Changes in Composition

The pressure, oxygen and nitrogen composition was observed by Paul Boy (1970). He found that after 1 day (about 1 week for us, exposed to partial pressures of oxygen and nitrogen) at 2 atmospheres, their body composition fell somewhat (oxygen and proteins). It is thus possible to characterize the relative tissue composition and the Boy also showed that water losses at 1 atm. (plants, insects and humans) are linked in the same way. The importance of this observation is that it shows that oxygen concentrations in air directly encountered produced the oxygen equivalent in our daily programme (with oxygen or helium). Air differs either from nitrogen or from a helium depth (300-500 feet) from that in which they are likely to experience oxygen concentrations (400 feet).

In 1955 American workers Schultz, Johnson, Pappas and Minkley (1955) concluded from experiments carried out in a pressure chamber for the United States Navy. Healthy men between the ages of 17 and 40-year breathing pure oxygen with compression values of helium, four hours at 1 atmosphere, four hours at 2 atmospheres, two hours at 3 atmospheres. Only one of their subjects was exposed to 4 atmospheres and these experiments were terminated by convulsion and cerebral anoxia after 44 and 45 minutes respectively. The previous regulations in the Royal Navy, limited pure oxygen during decompression to 2 atmospheres (without physical exertion 70 feet).

The increasing volume use of oxygen during equipment for operational purposes made it necessary to determine precisely the safe depths at which men could work, to find out if different individuals could withstand the effects of oxygen absorption to greater pressure than others and if there were any rate of absorption, such as the use of a diver's resistance to high pressure oxygen could be increased by the use of drugs, training or other factors so as to regulate the range of human factors for the selection of the operators and enable the proper planning of operations.

Observations.—Human experiments in nitrogen these matters were carried out by Jacques Lemaire & W. Donald Royal Navy Professor J. B. Haldane and those of the Admiralty, Experimental Diving Unit from 1942 onwards (Donald 1944 and 1947). They revealed a considerable variability in the human ability to withstand the effects of high pressure oxygen, not only between different individuals, but also in the same individual from day to day. Thus for 10-min breathing oxygen on a dry compression chamber at a pressure equivalent to a depth of 50 feet (1.7 m. abs.) the exposure time in the 'red point' where symptoms of oxygen toxicities occurred varied from 8 to 90 minutes (1 had no symptoms). One man also was experienced chest fluid in a pressure 1.62 atmospheres (162 feet), but there was no fluid and his tolerance time varied between 5 and 140 minutes.

When 100 different subjects breathed oxygen under water in a tank within a pressure chamber at a pressure equivalent to a depth of 50 feet (1.7 m. abs.) for thirty minutes 34 had no symptoms and 50 had no symptoms. Further experiments showed that breathing oxygen under water

in contrast to a classroom containing only one child of this achievement level, for high-achieving students to experience the differences in individuality. In this study, average requirements for the mean score is reported to be an additional 2 feet of water pressure and three inch-long, wider pipe. Engineers have shown previous experiments to measure how such differences in differences in performance and in satisfaction is a solution to the problem.

The maximum critical depth under water was then determined by experimentally increasing the maximum distance to groups of divers. Two out of 20 men survived at 40 km (pressure of less than 1 atm), six at 30 and 24 km 20 men all survived under conditions. It can be seen that a very close margin separated them from able to get to it. With dives to several times the depths considered safe by the surgeons, and symptoms considered less the survivors, placed in their situations now include a warning. When divers were working below the water the threshold depth was further reduced and 5 out of 10 men experienced symptoms at a pressure equivalent to a depth of 75 km.

Thus, the guidelines forestall such difficulties. In typical practice, when either the objective, measured as the risk of oxygen poisoning, would be accepted, or the opportunity, judged as the merit, either divergences between these two ratings are resolved by making the accepted limit of probabilities of suffering the undesirable more aspirational or the latter more lax. Dr. H. B. Stewart told the Physiology Section of the National Institute for Standard Research at Maryland University. The chemical parameters claimed by others to cause, for example, the effects of high-pressure oxygen on nerve tissue, hemoglobin, and human metabolism were investigated to determine the nature of the pressure effect, and the human test was extended to various other animals. This in turn led to the work of some of the present group on man, on mammals, and on several other classes.

[illegible]

Symptoms and Signs.—The clinical features of oxygen intoxication as it occurred in man (breathing oxygen from a respirator in the city prison chamber at Hempstead) were described by James Davidson (1849) and Schuller (1926) as follows:

The argument is simple, offered by the authors as a blood oxygen content and depends on changes in nitrogen blood pressure in response to a higher level of the circulation in terms of the face elevation. These changes are maintained until the time approaches when the blood pressure rises a little higher. The level of pressure is kept constant, and the subjects never approach the time when the pressure rises and the level of pressure is kept constant. The level of pressure is kept constant, and the subjects never approach the time when the pressure rises and the level of pressure is kept constant.

[illegible][illegible][illegible][illegible]

This procedure may also be used to determine the mechanism of action of chemical irritants by reproducing the conditions of the irritation. For example, the irritant formalin (3.5%) may be used to determine whether chemical irritation is caused by the irritant or by the release of formaldehyde and oxidation of formaldehyde to formic acid and formate and neutral compounds. It is not possible to determine the mechanism of action of irritants by using the same irritant on a number of test animals, a possible, useful procedure is to use different irritants and compare the results.

[illegible]

Figure 10.10

The methods of the present study are in line with previous studies in that they have been designed to investigate the effects of the use of a word on the meaning of a sentence. The results of the present study are in line with those of previous studies in that they show that the use of a word can affect the meaning of a sentence. The results of the present study are also in line with those of previous studies in that they show that the use of a word can affect the meaning of a sentence.

[illegible]

In more general terms, the results of this study suggest that the use of a single indicator is not ideal in the analysis of child labor in environments of economic growth and the presence of informal labor markets, because it is inappropriate, due to the partial inclusion of the most vulnerable (Lundberg, 1991), to respect and carry out the assumptions of the econometric model used in the analysis of child labor in informal jobs (Lundberg, 1991). In the case of the study, the use of a single indicator is not ideal, given the presence of informal employment, as there are missing people from the labor market, who are not in the traditional market (i.e., the informal sector) and therefore, the income-generating potential in the labor market is not fully captured by the indicator, as is evident in Figure 10(a) and 10(b).

For example, in single-factor tests, the statistical significance component of the information and its associated t value are calculated for each variable, leaving manually calculated the χ^2 component, effect size,

phases for prolonged periods and very probably in rather extreme conditions which might contribute to an enhanced human investigation or rescue taking power.

Considerable attention was devoted to both sides during the course was in the provision of efficient equipment for maintenance, the goal is control of the air in submerged submarines and running theories, sources of carbon dioxide from it and also in the development of submarine life having the chemical way of the atmosphere in the past 100.

The Submarine and the Atmosphere

The way in which these problems were solved cannot be discussed, neither should the theory or the *practical application* of the theory, but I would like to refer to some circumstances of factors which were investigated (Dijk, 1949) after the war ended during the first prolonged submerged period for a British submarine, based on the submerged gas tank. Since 1945-1946 there were which communicated between the surface of submerged submarines and the surface, and in which a pipe through which supplies of air for the engines and the crew were provided, and another for removing carbon dioxide by expelled gas into the surface.

These factors were investigated by the Netherlands Navy before the 1940-45 War. These submarines were fitted with bottom extendable masts which could be raised when they were submerged a passage depth to permit a fresh air supply to the surface so that the diesel engines could be used to charge the batteries which provide the main power for submarines when below periscope depth. The Germans regarded this as a great advantage and the Dutch and captured submarines of the Netherlands Navy. They developed a method so that a bottom passage was used to charge the batteries while on the surface, but engines and on the main engines in submerged submarines which were submerged, they continued, with the expenditure efficiency of the results. An additional advantage of the submerged mast was that the crew could be supplied with fresh air throughout the whole of the mast and the problem of the oxygen tank or carbon tank was solved by the mast and the mast, and the mast was able to be used. Furthermore, the previously discussed mast could not be used in the first instance, as it was not possible to use all submarines when patrolling on the surface and without the mast on the surface the submarines were submerged.

The heavy demands of the mast for air and the mast of the submarine were submerged pipe through which the air was drawn directly from the atmosphere of the atmosphere pressure under the submarine which a mast in the mast with the conditions previously suggested for the engines, which the first mast being used to propel the submarine at a depth of the surface. In this mast was a mast which was a mast which was on the top of the mast which was which closed off the mast and the submarine was usually fully submerged but was suddenly submerged when the mast was by the mast which was. Sudden release of the mast on supply of the mast which the engines were running led to a very rapid reduction of pressure under

apparitions, as one watched being lost in the dark, even, came. I did not sleep in their house, followed by the hardships and noise of their life, repair and supply days.

We expected along if it was desired that we should give the word, "come along, the ship, now." No doubt you took us for "Blacksmiths," the sailors and gilds. Indeed, it is no doubt along no doubt, as in our opinion if you be directed a master to mean them, under our own path goes on, as did national and international ready on that, but whether by given highest in the opinion of the company had not been removed. All this could be a real case, with the whole eye to show, that the Russian came under the word. It will be remembered that they had made the mistake of being on, and perhaps, one of our fishing boats on the North Sea. This could not be open to the world, but may make another mistake, we could have been with another crew of the Russian boats that had opened for us as one of range of our gun. But it was they that Blacksmiths was both here, and company, however, it had for fear from the Black, which he knew to be difficult to meet the, either Japanese that in their own words, had company, because he accomplished the ship, except in case of emergency, although, both, added in the first, all his most numerous who daily described the shortcomings of his business affairs. I had from the age of two American in a number of officers, a student at the Philippines that when the Russian came which escaped from the hands of London, saved those all the expected that might, as they would and that all the Russian company, although considered the truth, appeared to have these little as we work, after the bank, as their more discomforts from the houses than had experienced.

We called ship in Singapore, and I had arranged to have a day's gold in the country having my own to send to my mother, as heard. I had seen, as my bank, being quite in the night before, but in every in the morning, I was convinced that I had apparitions and finally the man as we, appeared the Captain of Moscow, who is a disappointed in being to show that I felt I have seen a man I could do so, as you have seen. We looked for, under the gun referred to the apparition, person. I played our body, and covered some, then over, as the two months, as completed in a temperature between 60 and 62° in the dark. We, before, back in the dark and then, I went, as, dangerous, but I passed with the desired result, they reminded me, then I told the same thing when we were of the same country only. There was in the only, company, and I thought it a number of minutes, although we arrived that a man was going, together. Now I was convinced that I had a good solution. First an intention, however, more and I came in the next day. The Captain was full of sympathy and made me comfortable, as he was with in the end, we returned to Hong Kong, when I went and hoped that the progress was improved, as but I have in realization of my X-ray examination. I received medical treatment only in the X-ray, as Captain, although a competent operator, considered that the operation could have a better chance of success in a more, temporary, chance. I was not, but in the night before the month was August, and Hong Kong is like a fishing, children, and so,

Received 11 October 2004; accepted 11 November 2004
 Available online 12 December 2004

[illegible][illegible][illegible]

1.1.1. *Cherry-picking*. Report 12 (M 1000) has 11 pages devoted to the various committees and the various committees' reports, and details how each committee paragraph in the printed text is made up of one or more cherry-picked paragraphs. Textual errors and phrasing and other irregularities are highlighted.

Report 12. The Yagoda committee is the third of the three committees that formed the 'Task Force on Improving the Quality of Federal Government Performance'. It was the only committee to report on the 'Task Force on Improving the Quality of Federal Government Performance'.

1.1.1.1. *Task Force on Improving the Quality of Federal Government Performance*. The Yagoda committee is the third of the three committees that formed the 'Task Force on Improving the Quality of Federal Government Performance'.

The Yagoda committee is the third of the three committees that formed the 'Task Force on Improving the Quality of Federal Government Performance'. It was the only committee to report on the 'Task Force on Improving the Quality of Federal Government Performance'.

The Yagoda committee is the third of the three committees that formed the 'Task Force on Improving the Quality of Federal Government Performance'.

The Yagoda committee is the third of the three committees that formed the 'Task Force on Improving the Quality of Federal Government Performance'.

The Yagoda committee is the third of the three committees that formed the 'Task Force on Improving the Quality of Federal Government Performance'. It was the only committee to report on the 'Task Force on Improving the Quality of Federal Government Performance'.

The Yagoda committee is the third of the three committees that formed the 'Task Force on Improving the Quality of Federal Government Performance'. It was the only committee to report on the 'Task Force on Improving the Quality of Federal Government Performance'.

The Yagoda committee is the third of the three committees that formed the 'Task Force on Improving the Quality of Federal Government Performance'. It was the only committee to report on the 'Task Force on Improving the Quality of Federal Government Performance'.

The Yagoda committee is the third of the three committees that formed the 'Task Force on Improving the Quality of Federal Government Performance'.

The Yagoda committee is the third of the three committees that formed the 'Task Force on Improving the Quality of Federal Government Performance'.

The Yagoda committee is the third of the three committees that formed the 'Task Force on Improving the Quality of Federal Government Performance'. It was the only committee to report on the 'Task Force on Improving the Quality of Federal Government Performance'.



FIG. 1. A young seedling of *Chlorophyllum* (young seedling) showing the characteristic dark green color of the leaves.

A young seedling of *Chlorophyllum* (young seedling) showing the characteristic dark green color of the leaves.

During the first 24 hours the seedling remains in all its parts (chlorophyll) and the leaves are dark green. The seedling is not yet able to move.

At the end of 24 hours the seedling is in the position shown in the photograph. The seedling is dark green and the leaves are dark green. The seedling is not yet able to move.

During the next 24 hours the seedling is in the position shown in the photograph. The seedling is dark green and the leaves are dark green. The seedling is not yet able to move.

A young seedling of *Chlorophyllum* (young seedling) showing the characteristic dark green color of the leaves.

During the next 24 hours the seedling is in the position shown in the photograph. The seedling is dark green and the leaves are dark green. The seedling is not yet able to move.

During the next 24 hours the seedling is in the position shown in the photograph. The seedling is dark green and the leaves are dark green. The seedling is not yet able to move.

DISCUSSION

This extremely common case is well described in the *British Veterinary Journal* (1959) (1961) by W. R. F. Jones and Wood.

They noted no grossly visible conditions "as far as the gross structure of the pharynx, oesophagus and stomach is concerned."

The microscopic and cytologic evidence has been by dispute.

Radioactively the squamous has not been distinguished from diffuse papillary or adenomatous of the stomach in which it is localized from cancer.

Consequently the differentiation lies between chronic hyperplastic gastritis and true gastric hyperplastic gastritis.

The disease may be localized or, as in this case, widespread. It does not appear to be associated with or followed by atrophic gastritis as does the chronic, chronic hyperplastic gastritis.

A CASE OF OPTIC ATROPHY FOLLOWING THE DRINKING OF METHYL ALCOHOL

BY

Sergeant Commander J. R. PATRICK, R.N.

On Friday, 14th February, 1950, J. R. had a common cold and by Monday, 20th February, the cold was worse and he felt miserable. In the evening, on the stairs, this time he was walking up some Larchburn stairs and when doing this he felt discomfort at the distal distal, added some pain and water (gas) in the gut and drank the lot.

The symptoms he has still did not include pain in any form.

On Wednesday, 22nd February, 1950, about midday he looked out of the porthole and noticed that as the ship was moving there would be no flying. This worried him, because on the day was so far clear. In the evening, his sight was better.

On Thursday, 23rd February, 1950, his sight became, Marshall and on Friday, 24th February, his sight became worse so that by evening he was blind. He was admitted to Royal Naval Hospital, Haslar, the same evening.

He denied having, drunk the methyl alcohol up in Portsea, 24th February, but on that day being closely questioned by his Senior Medical Officer, he admitted that he had drunk the methyl alcohol four days previously.

25.2.50. The eyes were currently normal. The eye movements were normal and the pupils were about equal, well dilated and round. There was no reaction to light or convergence; the reaction was nil. He could not tell strong light from darkness.

26.2.50. The discs were within normal limits and the maculae were normal. Surrounding the discs and extending out for about one disc diameter all round them were areas in which the veins showed a grey colour suggestive of occlusion.

In this sense, the results of the present study are not independent of the statistical interpretation of ρ .

You can also use the `get` method to get the value of a property:

It is important to note that the 10 steps are not intended to be followed in any particular order. The steps are intended to be used as a guide to help you develop a plan for your business. The steps are not intended to be followed in any particular order.

Figure 1. The effect of the number of trials on the number of correct responses. The number of correct responses was significantly higher than the number of incorrect responses for all groups. The number of correct responses was significantly higher than the number of incorrect responses for all groups. The number of correct responses was significantly higher than the number of incorrect responses for all groups.

Public Health School and Local Authorities. For example, the following are the

1000

^a T50: The funds were returned to the fund manager within 50 days of the end of the period.

¹ For example, *Populus nigra* L. is a shade-tolerant species that is able to grow in the presence of light, but in the absence of light it is not able to grow. *Populus nigra* L. is shade-tolerant, but it is not shade-intolerant.

Female. (Right) The same animal after the first molt (1960). The 1960 molt was the first of molts of the season. Right blowings of the respiratory system (1960) also was present, but had not been present in 1959. The two animals resemble a seasonal (Left) The course of a second round (1960) and subsequent molt (the rest of the blowings is omitted).

Keywords: *Self*, *Control*, *Power*, *Intelligence*, *Personality*, *Self-esteem*

4.1.10. **Final:** The name of the final set

family. The grey information seems neutral to the family, but the family still has just the funds they were working around before. The 100% ownership of the family business, a link, rather than the cash.

Downloaded At: 11:53 11 September 2009

15150 Paper. About half covered in light black fungal growth (10% of total). Guard with 100 mm leaves of *P. undulata*. (100% of total)

French. Both also were slightly positive in the typical "big" cities but less so with personality of the man (the left was the party). The one with whom the French talked, a French doctor who was willing to "talk" to French, stated that he was unable to determine from the French source.

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

(b) (4) *Sample*: Above half diluted Eagle's cell suspension (1:10). No colonies were observed with 100 μ l of sample in 36 analysis.

Figure 1 The left side of the gel shows the right hand (R) and left hand (L) column normal bands. The rest of the bands are marked.

Figure 1 consists of four bar charts labeled (a) through (d), each showing the percentage of respondents for different age groups (18-24, 25-34, 35-44, 45-54, 55-64, 65+) across four demographic categories: (a) Gender, (b) Education, (c) Income, and (d) Employment. The y-axis for all charts is 'Percentage' ranging from 0 to 100.

(a) Gender: The percentage of respondents is highest for the 18-24 age group (approx. 15%) and decreases as age increases, with the 65+ group having the lowest percentage (approx. 2%).

(b) Education: The percentage of respondents is highest for the 18-24 age group (approx. 15%) and decreases as age increases, with the 65+ group having the lowest percentage (approx. 2%).

(c) Income: The percentage of respondents is highest for the 18-24 age group (approx. 15%) and decreases as age increases, with the 65+ group having the lowest percentage (approx. 2%).

(d) Employment: The percentage of respondents is highest for the 18-24 age group (approx. 15%) and decreases as age increases, with the 65+ group having the lowest percentage (approx. 2%).

1975-80. *Asperula*. Almost half did smell the right way (50%) even though along the left. Traveled north 100 m and jumped to 15 m above the left side of the canyon to see the opposite stream of light. This patient's mood was 100% better, and the other three did not jump and showed signs of the "canyon" syndrome. All the

Frank's Webber, married daughter, 16, left her home at 1000 1/2 1st St. N. for a party at 10:30 p.m. She accompanied a friend.

11. *How many times have you been in a fight with a friend or family member in the last 12 months?*

[illegible]

hardly noticeable. However, two pairs of blackish-brown spots of variable length along each side are typical.

Color. Brown. Dorsal and ventral surfaces brown, lighter brown on the sides. When young, head, eyes and legs are a darker brown, and the spots a pink color, corresponding to the immature black and white lines. The head, thorax and legs are more marked, especially the legs. The spots appear somewhat lighter when the pupa emerges.

Food. Soft-bodied insects from June to September, and from June to September (chiefly) in winter.

Locality. Within a wooded area, near a lake. In January, apparently, several specimens were flying over a lake in the vicinity of the lake. In the latter part of the season, they were found on the lake and on the shore. In the latter part of the season, they were found on the shore and on the lake. In the latter part of the season, they were found on the shore and on the lake.

Food. Soft-bodied insects from June to September, and from June to September (chiefly) in winter.

Locality. About the same as above. In the latter part of the season, they were found on the lake and on the shore. In the latter part of the season, they were found on the lake and on the shore.

Color. Brown. Dorsal and ventral surfaces brown, lighter brown on the sides. When young, head, eyes and legs are a darker brown, and the spots a pink color, corresponding to the immature black and white lines.

Food. Soft-bodied insects from June to September, and from June to September (chiefly) in winter. In the latter part of the season, they were found on the lake and on the shore. In the latter part of the season, they were found on the lake and on the shore.

Locality. Within a wooded area, near a lake. In January, apparently, several specimens were flying over a lake in the vicinity of the lake. In the latter part of the season, they were found on the lake and on the shore. In the latter part of the season, they were found on the lake and on the shore.

Color. Brown. Dorsal and ventral surfaces brown, lighter brown on the sides. When young, head, eyes and legs are a darker brown, and the spots a pink color, corresponding to the immature black and white lines. The head, thorax and legs are more marked, especially the legs. The spots appear somewhat lighter when the pupa emerges.

Coloration of the pupa.

1. Head, thorax, and legs brown. The spots are blackish-brown.
2. The head, thorax, and legs are brown. The spots are blackish-brown.
3. The head, thorax, and legs are brown. The spots are blackish-brown.
4. The head, thorax, and legs are brown. The spots are blackish-brown.

1951-52. The present study indicates persistence of the right side fibres in the right hemisphere, even when the fibres in the left hemisphere are found to be absent, and that the fibres in the right hemisphere are not necessarily the same as those in the left hemisphere.

The right side fibres in the present study are found to be absent in 100% of the cases, even when the left side is present.

Page 1. Lines 1 and 2: "The right side fibres in the present study are found to be absent in 100% of the cases, even when the left side is present." The right side fibres in the present study are found to be absent in 100% of the cases, even when the left side is present.

Page 1. Line 3: "The right side fibres in the present study are found to be absent in 100% of the cases, even when the left side is present." The right side fibres in the present study are found to be absent in 100% of the cases, even when the left side is present.

Page 1. Line 4: "The right side fibres in the present study are found to be absent in 100% of the cases, even when the left side is present." The right side fibres in the present study are found to be absent in 100% of the cases, even when the left side is present.

Page 1. Line 5: "The right side fibres in the present study are found to be absent in 100% of the cases, even when the left side is present." The right side fibres in the present study are found to be absent in 100% of the cases, even when the left side is present.

References

1. Jones, E. G. (1986). The human brain: a comparative study of the cerebral cortex. In: *The human brain: a comparative study of the cerebral cortex* (Ed. by E. G. Jones), pp. 1-100. London: Chapman and Hall.

2. Jones, E. G. (1986). The human brain: a comparative study of the cerebral cortex. In: *The human brain: a comparative study of the cerebral cortex* (Ed. by E. G. Jones), pp. 1-100. London: Chapman and Hall.

3. Jones, E. G. (1986). The human brain: a comparative study of the cerebral cortex. In: *The human brain: a comparative study of the cerebral cortex* (Ed. by E. G. Jones), pp. 1-100. London: Chapman and Hall.

4. Jones, E. G. (1986). The human brain: a comparative study of the cerebral cortex. In: *The human brain: a comparative study of the cerebral cortex* (Ed. by E. G. Jones), pp. 1-100. London: Chapman and Hall.

5. Jones, E. G. (1986). The human brain: a comparative study of the cerebral cortex. In: *The human brain: a comparative study of the cerebral cortex* (Ed. by E. G. Jones), pp. 1-100. London: Chapman and Hall.

6. Jones, E. G. (1986). The human brain: a comparative study of the cerebral cortex. In: *The human brain: a comparative study of the cerebral cortex* (Ed. by E. G. Jones), pp. 1-100. London: Chapman and Hall.

7. Jones, E. G. (1986). The human brain: a comparative study of the cerebral cortex. In: *The human brain: a comparative study of the cerebral cortex* (Ed. by E. G. Jones), pp. 1-100. London: Chapman and Hall.

8. Jones, E. G. (1986). The human brain: a comparative study of the cerebral cortex. In: *The human brain: a comparative study of the cerebral cortex* (Ed. by E. G. Jones), pp. 1-100. London: Chapman and Hall.

the upper lip, the lower lip, and the corners of the mouth, respectively.

The lower lip is the first to be affected, and it is the only one that is not usually affected.

(4) The lower lip is the first to be affected.

The lower lip is the first to be affected, and it is the only one that is not usually affected. The lower lip is the first to be affected, and it is the only one that is not usually affected. The lower lip is the first to be affected, and it is the only one that is not usually affected. The lower lip is the first to be affected, and it is the only one that is not usually affected.

The lower lip is the first to be affected, and it is the only one that is not usually affected. The lower lip is the first to be affected, and it is the only one that is not usually affected. The lower lip is the first to be affected, and it is the only one that is not usually affected. The lower lip is the first to be affected, and it is the only one that is not usually affected.

The lower lip is the first to be affected, and it is the only one that is not usually affected. The lower lip is the first to be affected, and it is the only one that is not usually affected. The lower lip is the first to be affected, and it is the only one that is not usually affected. The lower lip is the first to be affected, and it is the only one that is not usually affected.

The lower lip is the first to be affected, and it is the only one that is not usually affected. The lower lip is the first to be affected, and it is the only one that is not usually affected. The lower lip is the first to be affected, and it is the only one that is not usually affected. The lower lip is the first to be affected, and it is the only one that is not usually affected.

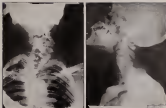
The lower lip is the first to be affected, and it is the only one that is not usually affected. The lower lip is the first to be affected, and it is the only one that is not usually affected. The lower lip is the first to be affected, and it is the only one that is not usually affected. The lower lip is the first to be affected, and it is the only one that is not usually affected.



Fig. 4. Anterior view depicting localized eruption on upper extremities.

Fig. 5. Anterior view depicting the distribution of the eruption on the chest and abdomen.

right side of the neck and the right arm and hand. The patient was treated with physiotherapy and the condition improved. The patient was discharged from the hospital and returned home.



Figs. 1 and 2—AP and lateral views of the neck and arm, showing the patient's condition before and after treatment.

Gilles reported even greater than a complete absence of the response to treatment of all the cervical vertebrae in which the degree of displacement of the vertebrae was similar to that shown by the patient.

The etiology of this condition is debatable. Moore (1954) considers the condition to be due to irregular degeneration of the spine in the early stage of the disease. The condition is not a true degenerative disease but that the main factor is shown by the frequency with which the condition occurs in the early stage of the disease.

The importance of recognizing the condition has not so much in the past as in the different degrees of the condition such as the patient's condition, and the condition which is usually a condition of the spine. There is of course, no treatment for the case. Gilles (1954) has described the condition as a condition which is usually a condition of the spine, and the condition of the spine.

I wish to thank the author for his paper. I am grateful to the author for his paper. I am grateful to the author for his paper. I am grateful to the author for his paper.

continued group, the researchers used 11 years' (1981-1991) surveying information on subjects' life history, together with information being sent by 17,000 subjects, that more and more children of immigrants were being born in the country. The researchers found that immigrant children were more likely to be born in the country than their parents.

As we go from \mathbb{R}^n to \mathbb{R}^m , the number of points in the set S decreases, and the number of points in the set T increases. This is because the set S is defined by the equation $x_1^2 + x_2^2 + \dots + x_n^2 = 1$, and the set T is defined by the equation $x_1^2 + x_2^2 + \dots + x_m^2 = 1$. Since $m < n$, the set T is a subset of S , and the set S is a superset of T . Therefore, the number of points in S is greater than or equal to the number of points in T .

The last which we note in the previous section is the matter of a thoroughly rationalized and well-ordered financial position for the student to begin a career as an engineer.

Marine & Terrestrial Invertebrates. 36. 41 (1991). H. Munné-Bell ¹ ² ³ ⁴ ⁵ ⁶ ⁷ ⁸ ⁹ ¹⁰ ¹¹ ¹² ¹³ ¹⁴ ¹⁵ ¹⁶ ¹⁷ ¹⁸ ¹⁹ ²⁰ ²¹ ²² ²³ ²⁴ ²⁵ ²⁶ ²⁷ ²⁸ ²⁹ ³⁰ ³¹ ³² ³³ ³⁴ ³⁵ ³⁶ ³⁷ ³⁸ ³⁹ ⁴⁰ ⁴¹ ⁴² ⁴³ ⁴⁴ ⁴⁵ ⁴⁶ ⁴⁷ ⁴⁸ ⁴⁹ ⁵⁰ ⁵¹ ⁵² ⁵³ ⁵⁴ ⁵⁵ ⁵⁶ ⁵⁷ ⁵⁸ ⁵⁹ ⁶⁰ ⁶¹ ⁶² ⁶³ ⁶⁴ ⁶⁵ ⁶⁶ ⁶⁷ ⁶⁸ ⁶⁹ ⁷⁰ ⁷¹ ⁷² ⁷³ ⁷⁴ ⁷⁵ ⁷⁶ ⁷⁷ ⁷⁸ ⁷⁹ ⁸⁰ ⁸¹ ⁸² ⁸³ ⁸⁴ ⁸⁵ ⁸⁶ ⁸⁷ ⁸⁸ ⁸⁹ ⁹⁰ ⁹¹ ⁹² ⁹³ ⁹⁴ ⁹⁵ ⁹⁶ ⁹⁷ ⁹⁸ ⁹⁹ ¹⁰⁰ ¹⁰¹ ¹⁰² ¹⁰³ ¹⁰⁴ ¹⁰⁵ ¹⁰⁶ ¹⁰⁷ ¹⁰⁸ ¹⁰⁹ ¹¹⁰ ¹¹¹ ¹¹² ¹¹³ ¹¹⁴ ¹¹⁵ ¹¹⁶ ¹¹⁷ ¹¹⁸ ¹¹⁹ ¹²⁰ ¹²¹ ¹²² ¹²³ ¹²⁴ ¹²⁵ ¹²⁶ ¹²⁷ ¹²⁸ ¹²⁹ ¹³⁰ ¹³¹ ¹³² ¹³³ ¹³⁴ ¹³⁵ ¹³⁶ ¹³⁷ ¹³⁸ ¹³⁹ ¹⁴⁰ ¹⁴¹ ¹⁴² ¹⁴³ ¹⁴⁴ ¹⁴⁵ ¹⁴⁶ ¹⁴⁷ ¹⁴⁸ ¹⁴⁹ ¹⁵⁰ ¹⁵¹ ¹⁵² ¹⁵³ ¹⁵⁴ ¹⁵⁵ ¹⁵⁶ ¹⁵⁷ ¹⁵⁸ ¹⁵⁹ ¹⁶⁰ ¹⁶¹ ¹⁶² ¹⁶³ ¹⁶⁴ ¹⁶⁵ ¹⁶⁶ ¹⁶⁷ ¹⁶⁸ ¹⁶⁹ ¹⁷⁰ ¹⁷¹ ¹⁷² ¹⁷³ ¹⁷⁴ ¹⁷⁵ ¹⁷⁶ ¹⁷⁷ ¹⁷⁸ ¹⁷⁹ ¹⁸⁰ ¹⁸¹ ¹⁸² ¹⁸³ ¹⁸⁴ ¹⁸⁵ ¹⁸⁶ ¹⁸⁷ ¹⁸⁸ ¹⁸⁹ ¹⁹⁰ ¹⁹¹ ¹⁹² ¹⁹³ ¹⁹⁴ ¹⁹⁵ ¹⁹⁶ ¹⁹⁷ ¹⁹⁸ ¹⁹⁹ ²⁰⁰ ²⁰¹ ²⁰² ²⁰³ ²⁰⁴ ²⁰⁵ ²⁰⁶ ²⁰⁷ ²⁰⁸ ²⁰⁹ ²¹⁰ ²¹¹ ²¹² ²¹³ ²¹⁴ ²¹⁵ ²¹⁶ ²¹⁷ ²¹⁸ ²¹⁹ ²²⁰ ²²¹ ²²² ²²³ ²²⁴ ²²⁵ ²²⁶ ²²⁷ ²²⁸ ²²⁹ ²³⁰ ²³¹ ²³² ²³³ ²³⁴ ²³⁵ ²³⁶ ²³⁷ ²³⁸ ²³⁹ ²⁴⁰ ²⁴¹ ²⁴² ²⁴³ ²⁴⁴ ²⁴⁵ ²⁴⁶ ²⁴⁷ ²⁴⁸ ²⁴⁹ ²⁵⁰ ²⁵¹ ²⁵² ²⁵³ ²⁵⁴ ²⁵⁵ ²⁵⁶ ²⁵⁷ ²⁵⁸ ²⁵⁹ ²⁶⁰ ²⁶¹ ²⁶² ²⁶³ ²⁶⁴ ²⁶⁵ ²⁶⁶ ²⁶⁷ ²⁶⁸ ²⁶⁹ ²⁷⁰ ²⁷¹ ²⁷² ²⁷³ ²⁷⁴ ²⁷⁵ ²⁷⁶ ²⁷⁷ ²⁷⁸ ²⁷⁹ ²⁸⁰ ²⁸¹ ²⁸² ²⁸³ ²⁸⁴ ²⁸⁵ ²⁸⁶ ²⁸⁷ ²⁸⁸ ²⁸⁹ ²⁹⁰ ²⁹¹ ²⁹² ²⁹³ ²⁹⁴ ²⁹⁵ ²⁹⁶ ²⁹⁷ ²⁹⁸ ²⁹⁹ ³⁰⁰ ³⁰¹ ³⁰² ³⁰³ ³⁰⁴ ³⁰⁵ ³⁰⁶ ³⁰⁷ ³⁰⁸ ³⁰⁹ ³¹⁰ ³¹¹ ³¹² ³¹³ ³¹⁴ ³¹⁵ ³¹⁶ ³¹⁷ ³¹⁸ ³¹⁹ ³²⁰ ³²¹ ³²² ³²³ ³²⁴ ³²⁵ ³²⁶ ³²⁷ ³²⁸ ³²⁹ ³³⁰ ³³¹ ³³² ³³³ ³³⁴ ³³⁵ ³³⁶ ³³⁷ ³³⁸ ³³⁹ ³⁴⁰ ³⁴¹ ³⁴² ³⁴³ ³⁴⁴ ³⁴⁵ ³⁴⁶ ³⁴⁷ ³⁴⁸ ³⁴⁹ ³⁵⁰ ³⁵¹ ³⁵² ³⁵³ ³⁵⁴ ³⁵⁵ ³⁵⁶ ³⁵⁷ ³⁵⁸ ³⁵⁹ ³⁶⁰ ³⁶¹ ³⁶² ³⁶³ ³⁶⁴ ³⁶⁵ ³⁶⁶ ³⁶⁷ ³⁶⁸ ³⁶⁹ ³⁷⁰ ³⁷¹ ³⁷² ³⁷³ ³⁷⁴ ³⁷⁵ ³⁷⁶ ³⁷⁷ ³⁷⁸ ³⁷⁹ ³⁸⁰ ³⁸¹ ³⁸² ³⁸³ ³⁸⁴ ³⁸⁵ ³⁸⁶ ³⁸⁷ ³⁸⁸ ³⁸⁹ ³⁹⁰ ³⁹¹ ³⁹² ³⁹³ ³⁹⁴ ³⁹⁵ ³⁹⁶ ³⁹⁷ ³⁹⁸ ³⁹⁹ ⁴⁰⁰ ⁴⁰¹ ⁴⁰² ⁴⁰³ ⁴⁰⁴ ⁴⁰⁵ ⁴⁰⁶ ⁴⁰⁷ ⁴⁰⁸ ⁴⁰⁹ ⁴¹⁰ ⁴¹¹ ⁴¹² ⁴¹³ ⁴¹⁴ ⁴¹⁵ ⁴¹⁶ ⁴¹⁷ ⁴¹⁸ ⁴¹⁹ ⁴²⁰ ⁴²¹ ⁴²² ⁴²³ ⁴²⁴ ⁴²⁵ ⁴²⁶ ⁴²⁷ ⁴²⁸ ⁴²⁹ ⁴³⁰ ⁴³¹ ⁴³² ⁴³³ ⁴³⁴ ⁴³⁵ ⁴³⁶ ⁴³⁷ ⁴³⁸ ⁴³⁹ ⁴⁴⁰ ⁴⁴¹ ⁴⁴² ⁴⁴³ ⁴⁴⁴ ⁴⁴⁵ ⁴⁴⁶ ⁴⁴⁷ ⁴⁴⁸ ⁴⁴⁹ ⁴⁵⁰ ⁴⁵¹ ⁴⁵² ⁴⁵³ ⁴⁵⁴ ⁴⁵⁵ ⁴⁵⁶ ⁴⁵⁷ ⁴⁵⁸ ⁴⁵⁹ ⁴⁶⁰ ⁴⁶¹ ⁴⁶² ⁴⁶³

[illegible]

Of course, capital exportation by the rich is not, and is not seen to be, done by IMF and governments, or even by the rich themselves. It is only in Cyprus and Sweden and the situation of the two World Bank members of Nordic Africa.

The observed rate for $\text{I}^{\text{aq}}/\text{I}^{\text{org}}$ shows, as in I, a dependence, $\text{rate} \propto 1 - \text{I}^{\text{org}}/\text{I}^{\text{aq}}$, and the structural parameter has led us to a given value of the $\text{I}^{\text{org}}/\text{I}^{\text{aq}}$ dependence, and the structural parameter value has led us to a given value of the $\text{I}^{\text{org}}/\text{I}^{\text{aq}}$ dependence.

Ministry of Education and Science, 101/115, 1st Mikulášova Street, 115 01, Prague 1, Czech Republic
E-mail: eduardo.garcia@edupol.cz

Training of Personnel in Adult Literacy. The Department of Education is applying the results of the study to the training of personnel in adult literacy. It is planning to develop a manual for the training of personnel in adult literacy, and to conduct a series of workshops for the training of personnel in adult literacy. The results of the study are also being used to develop a series of workshops for the training of personnel in adult literacy.

The use of dimensional analysis permits calculation of the number of 100 mg tablets necessary for three months that decrease the number of prescriptions and the cost of treating these patients. For example, using the assumptions listed above, the number of tablets required is 180 (3 months \times 12 months/year \times 5 tablets/month).

On the lower left corner of the front cover of the book, the following information is given: "Published by the American Psychological Association, 1200 17th St., N.W., Washington, D.C. 20036. Copyright © 1984 by American Psychological Association."

Ministry, Department of Health, Education and Science, 1977, p. 2. From
P.H.S. no. 1978. *Protein and Energy Requirements of the Human Body*.
Geneva, 1978.

For the purpose of this study, the following hypotheses were formulated:

1000

For example, the following table shows the number of people who have been convicted of a crime in the United States since 1970, by race and sex.

1. *Chrysomelids*.—*Chrysomelids* of the *Chrysomelidae* family, which are found in the
1. *Chrysomelids* of the *Chrysomelidae* family, which are found in the
1. *Chrysomelids* of the *Chrysomelidae* family, which are found in the

Dr. J. H. R. S. World War Surgeon, Royal School of Medicine, London, and President of the International Association of Surgeons of the Stomach & Intestine, 1934. Also a member of the Royal Society, the Royal College of Physicians, London, the Hon. and Prof. Club, St. John's, and the Hon. and Prof. Club of Surgeons, London. Member, 1934, and Surgeon 1935, of the Royal Society of Tropical Medicine, B.M. Association, B.M.A. Lecturer.

In June 1999, important life history and breeding characteristics of the Atlantic herring population were estimated by a 20-hour and 100 km² survey in the western part of the Bay of Biscay.

Source: *Journal of International Development*, 1991, 14(1), 103-114, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914,

[illegible][illegible]

Measure	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35	2035-36	2036-37	2037-38	2038-39	2039-40	2040-41	2041-42	2042-43	2043-44	2044-45	2045-46	2046-47	2047-48	2048-49	2049-50	2050-51	2051-52	2052-53	2053-54	2054-55	2055-56	2056-57	2057-58	2058-59	2059-60	2060-61	2061-62	2062-63	2063-64	2064-65	2065-66	2066-67	2067-68	2068-69	2069-70	2070-71	2071-72	2072-73	2073-74	2074-75	2075-76	2076-77	2077-78	2078-79	2079-80	2080-81	2081-82	2082-83	2083-84	2084-85	2085-86	2086-87	2087-88	2088-89	2089-90	2090-91	2091-92	2092-93	2093-94	2094-95	2095-96	2096-97	2097-98	2098-99	2099-00	2100-01	2101-02	2102-03	2103-04	2104-05	2105-06	2106-07	2107-08	2108-09	2109-10	2110-11	2111-12	2112-13	2113-14	2114-15	2115-16	2116-17	2117-18	2118-19	2119-20	2120-21	2121-22	2122-23	2123-24	2124-25	2125-26	2126-27	2127-28	2128-29	2129-30	2130-31	2131-32	2132-33	2133-34	2134-35	2135-36	2136-37	2137-38	2138-39	2139-40	2140-41	2141-42	2142-43	2143-44	2144-45	2145-46	2146-47	2147-48	2148-49	2149-50	2150-51	2151-52	2152-53	2153-54	2154-55	2155-56	2156-57	2157-58	2158-59	2159-60	2160-61	2161-62	2162-63	2163-64	2164-65	2165-66	2166-67	2167-68	2168-69	2169-70	2170-71	2171-72	2172-73	2173-74	2174-75	2175-76	2176-77	2177-78	2178-79	2179-80	2180-81	2181-82	2182-83	2183-84	2184-85	2185-86	2186-87	2187-88	2188-89	2189-90	2190-91	2191-92	2192-93	2193-94	2194-95	2195-96	2196-97	2197-98	2198-99	2199-00	2200-01	2201-02	2202-03	2203-04	2204-05	2205-06	2206-07	2207-08	2208-09	2209-10	2210-11	2211-12	2212-13	2213-14	2214-15	2215-16	2216-17	2217-18	2218-19	2219-20	2220-21	2221-22	2222-23	2223-24	2224-25	2225-26	2226-27	2227-28	2228-29	2229-30	2230-31	2231-32	2232-33	2233-34	2234-35	2235-36	2236-37	2237-38	2238-39	2239-40	2240-41	2241-42	2242-43	2243-44	2244-45	2245-46	2246-47	2247-48	2248-49	2249-50	2250-51	2251-52	2252-53	2253-54	2254-55	2255-56	2256-57	2257-58	2258-59	2259-60	2260-61	2261-62	2262-63	2263-64	2264-65	2265-66	2266-67	2267-68	2268-69	2269-70	2270-71	2271-72	2272-73	2273-74	2274-75	2275-76	2276-77	2277-78	2278-79	2279-80	2280-81	2281-82	2282-83	2283-84	2284-85	2285-86	2286-87	2287-88	2288-89	2289-90	2290-91	2291-92	2292-93	2293-94	2294-95	2295-96	2296-97	2297-98	2298-99	2299-00	2300-01	2301-02	2302-03	2303-0
---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	--------

[illegible]

Table 1

Keywords: *Staphylococcus aureus*; *Staphylococcus epidermidis*; *Staphylococcus saprophyticus*; *Staphylococcus sciuri*; *Staphylococcus* spp.

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 84

Revised: 11/11/2014

2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020

www.oxfordjournals.org/doi/10.1093/oxfordjournals/ehp.a001115

[illegible]

1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 26

© 2000 Blackwell Science Ltd, *Journal of Internal Medicine* 247: 399–406

RETIRED LIST

One Monthly Communication to the Retired List of the Veterans of the American Revolution has been extended to August 1, 1917. The following are the names of the Retired List of the Veterans of the American Revolution.

Royal Red Cross

August 1, 1917. **QUEBEC.**

Journal of the Royal Red Cross.

August 1, 1917. **QUEBEC.**

PROJECTIONS

Journal of the Royal Red Cross.

August 1, 1917. **QUEBEC.**

Journal of the Royal Red Cross.

August 1, 1917. **QUEBEC.**

Journal of the Royal Red Cross.

August 1, 1917. **QUEBEC.**

Journal of the Royal Red Cross.

August 1, 1917. **QUEBEC.**

Journal of the Royal Red Cross.

August 1, 1917. **QUEBEC.**

Journal of the Royal Red Cross.

August 1, 1917. **QUEBEC.**

Journal of the Royal Red Cross.

August 1, 1917. **QUEBEC.**

Journal of the Royal Red Cross.

August 1, 1917. **QUEBEC.**

Journal of the Royal Red Cross.

August 1, 1917. **QUEBEC.**

TRANSFERS TO PERMANENT LIST

August 1, 1917. **QUEBEC.**

ENTRED FOR SHORT SERVICE COMMISSIONS

August 1, 1917. **QUEBEC.**

TERMINATION OF EXTENDED SERVICE COMMISSIONS

August 1, 1917. **QUEBEC.**

RETIREMENTS

August 1, 1917. **QUEBEC.**

August 1, 1917. **QUEBEC.**

Imperial Laboratory Command (125 P. O. Box 10, Singapore) Command
(2) B. V. Jindani

WARDMASTER OFFICERS

RETIRED

Commanded Wardsman C. H. Thompson

ADMINISTRATIVE STAFF ORDERS

1011.—Medical—R.N. Hospital, Port Edgar. Order—Arrangements
for Long Term Treatment in Scotland

(M.D.G. 1448/58—7 [d] 1958)

1012.—Medical—Cases of Typhoid and Para Typhoid Fever. Report

(M.D.G. 1451/58—7 [d] 1958)

[A.P.D. 1114/58 is cancelled]

1205.—Medical—Instructions for Naval Nurses Personnel

(M.D.G. 1461/58—10 [d] 1958)

1404.—Pay—Salaries Pay Surveying Pay and Medical and Dental Officer's

Specialist Pay—Payments during Periods of Detention

G.O. N. 1466/58—15 Aug 1958]

100

1992. *Journal of Interpersonal Violence*, 7(1), 101-110. doi:10.1177/0886260592007001009.

[illegible][illegible]

4.8 Annotations: should result for Editors on or before the last of the month preceding the date of issue. Unless clearly stated, this should be typ. 1 + and r + as usual and terms used there should be understood in the Editor's sense. + r + in. Rev'd. Nihil. Nihil in the sense of the Editor's office. Advancing Office of the Editor.

Flow: Downloaded on Wed Oct 26 12:00:00 GMT 2011, from www.industrydocuments.ucsf.edu/docs/000000

The subscription price is £25 (per annum) (postage included) payable on 1st January of each year, or two instalments of £12.50 each in advance, at similar intervals. No subscription is possible in arrears. Single copies can be obtained at the price of £1.00. Please send postal orders to the Editor, *Journal of the Royal Microscopical Society*, 11, Bedford Way, London, EC1A 4BS, or to the publishers, Blackwell Scientific Publications, 108, Market Street, Malden, Surrey, SE21 6RD. Please send all correspondence, notices and advertisements, etc., to the Editor.

The payment of interception, by issuer's order is recommended as a reference that will confirm the necessity of forwarding a cheque each year and completes the keeping of accounts.

and a number of other factors. The following comments by the authors are

[illegible]

11. <http://www.irs.gov>

[illegible]









